



# Scientific Abstract Listing and Annual Meeting Information

## 64<sup>th</sup> AAN Annual Meeting

New Orleans  
Ernest N. Morial  
Convention Center

*April 21–28, 2012*

**Housing Deadline**  
*March 21, 2012*

**Early Registration Deadline**  
*March 28, 2012*



# 2012 Deadlines-At-A-Glance

## Annual Meeting Deadlines

---

### **MARCH 21, 2012**

Annual Meeting Housing Deadline

Visit [www.aan.com/go/am12](http://www.aan.com/go/am12)

### **MARCH 28, 2012**

Annual Meeting Early Registration Deadline

Visit [www.aan.com/go/am12](http://www.aan.com/go/am12)

### **MAY 11, 2012**

2013 Annual Meeting Course Proposal Deadline

## Location

New Orleans Ernest N. Morial Convention Center

## Headquarters Hotel

Hilton New Orleans Riverside

**Go to [www.aan.com/go/am12](http://www.aan.com/go/am12)**



### **Cover Artist**

Carol Hallock lives in a home on stilts on Bayou Lacombe in Louisiana. She often paints the surrounding bayou and marsh from her kayak. “Geraldine” the egret is a favorite subject. Born and raised in Baton Rouge and graduate of Louisiana State University, Carol loves the unique beauty of her homeland.

Acclaimed for her use of expression and color, Carol has gained widespread respect for her evocative, regional, nautical, swamp and tropical scenes. The adage, “Less is More” is true even in painting. The fewer details, the more the painting “talks.” The viewer fills in the blanks to truly appreciate the painting.

Carol’s work can be found in collections across the country and internationally. Select prints are sold worldwide. She has produced books of her work as well as “how to” videos entitled, “The art of loose painting Vol I and II.” Volume I is shown in over 70 television stations across the nations and also shown in Cape Town, South Africa. Her work has won many awards and also graces the cover of magazines as well as being included in numerous press and magazine articles. Her New Orleans themed originals can be seen at Jean Bragg Gallery on 600 Julia Street in New Orleans. To see more of Carol’s work, please visit [www.carolhallock.com](http://www.carolhallock.com).

# Contents

Make It YOUR Meeting . . . . .	2
Helpful Tips on How to Use This Book . . . . .	4
Industry Relations Message . . . . .	6
Annual Meeting Program Listing by Topic. . . . .	7
Meeting-At-A-Glance. . . . .	14
Science Highlights . . . . .	18
2013 Education Program Suggestions . . . . .	19
Scientific Sessions-at-a-Glance . . . . .	20
Award Recipients . . . . .	23
Meeting Overview . . . . .	28
Opportunities for Students, Residents, and Fellows. . . . .	38
What's Free with YOUR Registration?. . . . .	40
Poster Session Floor Plan. . . . .	48
<b>Sunday, April 22</b>	
Integrated Neuroscience Sessions . . . . .	42–43
<b>Monday, April 23</b>	
Integrated Neuroscience Sessions . . . . .	44–47
Poster Session I . . . . .	49–55
<b>Tuesday, April 24</b>	
Poster Session II . . . . .	56–62
<b>Presidential Plenary Session . . . . .</b>	<b>63</b>
Scientific Sessions. . . . .	64–65, 74–75
Integrated Neuroscience Session . . . . .	66
Poster Session III . . . . .	67–73
<b>Hot Topics Forum. . . . .</b>	<b>76</b>
<b>Wednesday, April 25</b>	
Poster Session IV . . . . .	77–83
<b>Contemporary Clinical Issues Plenary Session . . . . .</b>	<b>84</b>
Integrated Neuroscience Session . . . . .	88
Scientific Sessions. . . . .	86–87, 96–97
Poster Session V. . . . .	89–95
<b>Thursday, April 26</b>	
Poster Session VI . . . . .	98–104
<b>Frontiers in Translational Neuroscience Plenary Session. . . . .</b>	<b>105</b>
Integrated Neuroscience Session . . . . .	108
Scientific Sessions . . . . .	106–107, 116–117
Poster Session VII . . . . .	109–115
<b>Friday, April 27</b>	
Integrated Neuroscience Session . . . . .	118
Future of Neuroscience Conference . . . . .	119
<b>Clinical Trials Forum and Scientific Program Highlights . . . . .</b>	<b>120</b>
<b>Event Highlights . . . . .</b>	<b>122</b>
<b>2012 AAN On Demand Products (AAN On Demand and Syllabi on CD) . . . . .</b>	<b>126</b>
<b>General Information . . . . .</b>	<b>128</b>
CME/Accreditation/Core Competencies. . . . .	128
Disclaimers/Disclosures . . . . .	128
Services . . . . .	129
Guidelines . . . . .	129
Volunteer Opportunities . . . . .	129
Weather/Attire . . . . .	129
<b>Registration . . . . .</b>	<b>130</b>
<b>Hotel Reservations . . . . .</b>	<b>134</b>
<b>Travel Information . . . . .</b>	<b>138</b>
<b>Travel Tips . . . . .</b>	<b>138</b>
<b>Annual Meeting Exhibitors. . . . .</b>	<b>140</b>
<b>64<sup>th</sup> Annual Meeting Committee Members and Annual Meeting Committees . . . . .</b>	<b>142</b>
<b>What to Do in New Orleans? . . . . .</b>	<b>146</b>
<b>Important Information and Contacts . . . . .</b>	<b>148</b>

# Make It YOUR Meeting

## It's Your Meeting. It's Your Experience.

The 64<sup>th</sup> AAN Annual Meeting is all about tailoring to your needs, your interests. Whether you're planning to take in just two days, all eight, or extend your stay after the meeting to enjoy Jazz Fest, there is a wide array of education, science, practice programs and events—and, of course, the beauty of New Orleans— available for you to customize the week to your specific interests, career stage, and schedule. It's your experience, so make this your meeting.



## Experience Top Education

Innovative programs in a wide range of topics. Combined education and science subspecialty tracks. Curriculum-based programming. And broad focus of interest to all levels of expertise. That's the 2012 Education Program. Customize your schedule any way you like: take your pick of general neurology, subspecialty areas, practice management, skills workshop, returning evening case study programs, and much more. It's about what YOU want to learn.

## Experience Breakthrough Science

Breakthrough research is always one of the Annual Meeting's biggest draws, and New Orleans will be no exception. Customize your schedule to your specific needs and interests. Looking for in-depth, translational neuroscience? Then the popular Future of Neuroscience Conference is for you. What about top researchers presenting insightful, comprehensive examinations of movement disorders, aging, neurogenetics, and more? No problem—we've got ten Integrated Neuroscience sessions. Or are you a specialist looking for intensive focus in your field of specialization? Six Subspecialty in Focus sessions have you covered. That's the 2012 Scientific Program. Make it YOURS.

## Experience Practice Improvement

Whether you're looking for valuable insight into how you can improve your practice or are worried about what you can do in today's changing health care environment to provide the best possible care for your patients, the 2012 Practice Programs offers something for everyone all week long, including free programs such as Practice Colloquium, Best Care Expo, and more. Take in the programs that are right for your practice, your staff, your patients, and YOU.





Photographer: Richard Nowitz

**New**

## Experience the Convenience of One-stop Planning

Streamlined. Convenient. Helpful. That's the new, completely customizable online registration system for the 2012 Annual Meeting. Registration, hotel booking, and itinerary planning made simple—and in one convenient location! Search for your favorite programs, build your itinerary, including personal meetings and social events—and keep coming back to view or modify it. Easily see all of the FREE programs and events included with your registration. It's about what YOU want out of YOUR meeting.

## Experience Value

Value. That's the name of the game at the 2012 Annual Meeting. Whether you're just starting a neurology practice or are a seasoned neurologist, researcher, or other neurology professional, the Annual Meeting provides tremendous value to all registered attendees, both AAN members and nonmembers alike. Your economical registration fee opens up a world of FREE events and programs—all week long!

## Experience New Orleans

History, architecture, culture, art, music—and, of course, food—abound in New Orleans, one of America's most unique and exciting destinations. Regardless of age, interest, or length of stay, there are countless ways to explore and create lasting memories. And with the meeting's condensed schedule and most programs ending before 7:00 p.m., it makes it easy to schedule your week and take advantage of this most European of American cities. No matter what your interest, New Orleans has it. So make your stay YOURS.

## Experience New Ways of Getting Healthy

Looking for more ways to be “on the go” while you're on the go in New Orleans? Wondering how you'll fit in exercise with your busy meeting schedule? We're making it easy. Make your morning exercise regimen YOURS and choose between calming yoga or fun family tennis events hosted by the AAN Sports Neurology Section and the United States Tennis Association (USTA).

**Love music? No city loves music more than New Orleans, and here music abounds from the streets, clubs, churches, concert halls, and just about everywhere—consider extending your stay after the Annual Meeting to take in the world-famous annual New Orleans Jazz & Heritage Festival, set for April 27 to May 6. Learn more at [www.nojazzfest.com](http://www.nojazzfest.com).**

**Book a hotel early to secure room!**




Photographer: Jack Edwards

# Helpful Tips on How to Use This Book







## Annual Meeting Numbering Legend

- |                               |                                 |
|-------------------------------|---------------------------------|
| 1 Day one, Saturday, April 21 | 5 Day five, Wednesday, April 25 |
| 2 Day two, Sunday, April 22   | 6 Day six, Thursday, April 26   |
| 3 Day three, Monday, April 23 | 7 Day seven, Friday, April 27   |
| 4 Day four, Tuesday, April 24 | 8 Day eight, Saturday, April 28 |

## Course Feature Icons

 Denotes program is using Audience Response System (ARS), which actively engages participants, facilitates discussion, and enhances educational value.

The following icons denote Subspecialty in Focus (SIF) Track which combines science and education to provide special, intensive programming in a specialty area.

- |   |                                     |
|---|-------------------------------------|
|  <b>A/D</b> | Aging/Dementia/Degenerative Disease |
|  <b>CN</b>  | Child Neurology                     |
|  <b>CV</b>  | Cerebrovascular Disease             |
|  <b>EP</b>  | Epilepsy                            |
|  <b>MD</b>  | Movement Disorders                  |
|  <b>PN</b>  | Peripheral Neuropathy               |

## How to Read a Course Description

**2FC.001** *(First Digit = Day of Program) (Letters = Type of Program)*

### Course Title

**Topic:** Determines your topic or specialty/subspecialty area of interest.

**Core Competency:** Identifies the ABPN, ABMS, and ACGME core competency skill and ability that is central to, or at the core of, your given field.

**Teaching Style:** Helps you choose the teaching style that best matches your learning needs.

**CME Credits:** Denotes the number of AMA PRA Category 1 CME Credits<sup>®</sup> for meeting your Maintenance of Certification (MOC) Continuing Medical Education (CME) requirements.

**Director:** Indicates the managing expert faculty member.


**Program Description:** Provides an overview of the course and what you can expect to learn.

**Upon Completion:** Explains what you can expect to take away from the course and apply to your career.

**Lecture/Faculty:** Lists individual presentations and expert faculty.

**Recommended Audience:** Identifies the career type(s)/specialties most likely to benefit from the course information.

## Annual Meeting Course Description

<b>AC</b>	<b>Morning Half-Day Course</b> —A four-hour, didactic program. Taking place before lunch.
<b>CS</b>	<b>Case Studies Program</b> —Interactive program lasting three hours based on cases. Participants may be solicited for cases.
<b>EC</b>	<b>Colloquium</b> —Program covers wide interest topics appealing to all neurologists. Free to all registered attendees.
<b>EP</b>	<b>Clerkship and Program Directors Conference</b> —Interactive program offered only on Saturday, April 21. Program begins at 8:00 a.m. and ends at 4:00 p.m. Program is specifically targeted to individuals who are Clerkship Directors or Program Directors.
<b>ES</b>	<b>Extended Seminar</b> —A three-hour interactive program. Expanded to three hours to allow for a deeper exploration of content.
<b>FC</b>	<b>Full-Day Course</b> —An eight-hour didactic program.
<b>IN</b>	<b>Integrated Neuroscience Session</b> —Provides in-depth subspecialty concentration around a topic using a combination of presentations, including data blitz sessions, case studies, invited speakers, and poster rounds.
<b>KP</b>	<b>Kick-Off Program</b> —A two-hour interactive program offered only on Saturday, April 21.
<b>LP</b>	 <b>Leadership Program</b> —Denotes AAN Leadership Development Program, which focuses on valuable leadership skills in the key areas of Leading Self and Leading Others.
<b>MR</b>	<b>Morning Report</b> —Interactive program. The director will present a case with focused questions directed to the program attendees. All Morning Report programs will utilize the Audience Response System.
<b>NF</b>	<b>Neuro Flash</b> —Quick updates on the pertinent issues about a clinical topic. Program assumes participants have baseline knowledge in the topic. Three half-hour talks will be interspersed with interactive Q&A. All Neuro Flash programs will utilize the Audience Response System.
<b>NP</b>	<b>Neurology Skills Pavilion</b> —Hands-on, interactive program. Participants rotate through multiple learning stations in small groups.
<b>P*</b>	<b>Poster Session</b> —Hall of posters on a variety of topics. Posters are displayed for 4 1/2 hours, authors will be present for 90 minutes.
<b>PC</b>	<b>Afternoon Half-Day Course</b> —A four-hour didactic program. Taking place after lunch.
<b>PD*</b>	<b>Poster Discussion Session</b> —Group of posters on a specific topic with a moderated discussion period.
<b>PW</b>	<b>Afternoon Skills Workshop</b> —Hands-on, interactive program. Participants will rotate in small groups through a series of demonstration rooms. Available to physicians only.
<b>S*</b>	<b>Scientific Sessions</b> —Series of 10-minute scientific talks, followed by 5-minute question and answer periods.
<b>SC</b>	<b>Neuroscience Conference</b> —Interactive program combining invited talks and submitted abstracts offered only on Friday, April 27. Program begins at 9:00 a.m. and ends at 5:00 p.m.
<b>SM</b>	<b>Seminar</b> —A two-hour interactive program designed to stimulate interaction and discussion in the program.
<b>SW</b>	<b>Skills Workshop</b> —Hands-on, full day interactive program. Participants will rotate in small groups through a series of demonstration rooms. Available to physicians only.
<b>TP</b>	<b>Therapy Program</b> —Two-hour didactic program on April 27, discussing emerging therapies.

\*Scientific Programs (poster sessions, poster discussion sessions, scientific sessions, and Integrated Neuroscience Programs) are in chronological order.

## Sample Itineraries

The following sample itineraries are provided to offer insight into potential approaches to planning your week based on individual requirements and/or schedules:

### Itinerary Example 1

You are arriving Friday night (April 20) and departing Tuesday afternoon (April 24)

Specialties and learning you are interested in while at the Annual Meeting:

General Updates, Multiple Sclerosis, Neuro-ophthalmology/Neuro-otology, Therapies, Dementia, and Managing Your Practice

Saturday, April 21	Sunday, April 22	Monday, April 23	Tuesday, April 24
<p><b>8:00 a.m.–12:00 p.m.</b> 1AC.003–Diagnostic Dilemmas in Multiple Sclerosis</p> <p><b>12:00 p.m.–4:00 p.m.</b> 1EC.001–BRAINS Colloquium</p> <p><b>4:00 p.m.–6:00 p.m.</b> 1KP.008–Assessment of Rapidly Progressive Dementias and Related Neurologic Conditions</p>	<p><b>6:30 a.m.–8:00 a.m.</b> 2MR.001–Morning Report: Memory Disorders</p> <p><b>10:00 a.m.–6:00 p.m.</b> 2FC.004–Therapy in Neurology</p> <p><b>6:00 p.m.–11:00 p.m.</b> Celebration for Research</p>	<p><b>6:30 a.m.–9:30 a.m.</b> 3ES.002–Eye Movement Disorders: A Systematic Approach to the Evaluation of Diplopia</p> <p><b>10:00 a.m.–6:00 p.m.</b> 3FC.005–Neurology Update I</p> <p><b>4:30 p.m.–7:30 p.m.</b> Exhibit Hall Opening Reception</p>	<p><b>9:00 a.m.–12:00 p.m.</b> Presidential Plenary Session</p> <p><b>1:00 p.m.–2:45 p.m.</b> S01 Multiple Sclerosis: Clinical Trials: Clinical Outcomes</p> <p><b>3:00 p.m.–4:30 p.m.</b> S14 Aging and Dementia: Diagnosis and Biomarkers</p>

### Itinerary Example 2

You are arriving Wednesday morning (April 25) and departing Saturday afternoon (April 28)

Specialties and learning you are interested in while at the Annual Meeting:

Dementia, Epilepsy, Neuromuscular, Headache, and Cerebrovascular Disease

Wednesday, April 25	Thursday, April 26	Friday, April 27	Saturday, April 28
<p><b>7:30 a.m.–9:00 a.m.</b> Poster Session</p> <p><b>9:00 a.m.–12:00 p.m.</b> Contemporary Clinical Issues Plenary Session</p> <p><b>12:00 p.m.</b> Visit Exhibit Hall</p> <p><b>2:00 p.m.–5:00 p.m.</b> Controversies in Neuroscience Session</p> <p><b>8:00 p.m.</b> Have Dinner with Colleagues</p>	<p><b>6:30 a.m.–8:00 a.m.</b> 6NF.001–Neuro Flash: Epilepsy</p> <p><b>9:00 a.m.–11:00 a.m.</b> Frontiers in Translational Neuroscience Plenary Session</p> <p><b>2:00 p.m.–6:00 p.m.</b> 6PC.002–Clinical EMG I</p> <p><b>6:00 p.m.–9:00 p.m.</b> 6CS.004–Case Studies: Unusual Diagnostic and Management of Cases in Neuromuscular Disease</p>	<p><b>6:30 a.m.–8:00 a.m.</b> 7MR.001–Morning Report: Challenging Headache Cases</p> <p><b>9:00 a.m.–5:00 p.m.</b> 7FC.002–Dementia Update</p> <p><b>5:15 p.m.–6:15 p.m.</b> Scientific Program Highlights</p> <p><i>Enjoy a night out!</i></p>	<p><b>6:30 a.m.–8:30 a.m.</b> 8SM.002–Vascular Cognitive Impairment and Dementia: Current Status and Future</p> <p><b>9:00 a.m.–1:00 p.m.</b> 8AC.005–Clinical Approach to Muscle Disease</p> <p><b>Enjoy the Jazz Fest!</b> Book a hotel early to secure a room.</p>

# Industry Relations Message

Continuing medical education is one of the most important and well-regarded member services provided by the American Academy of Neurology (AAN). The Annual Meeting is the AAN's premier continuing medical education event. It is internationally recognized in the neurologic community for the quality of its education and scientific programs as well as many networking opportunities.

The AAN benefits from corporate sponsors who provide financial support for a variety of Annual Meeting events and programs. The AAN and its members are aware of industry involvement in the Annual Meeting and the potential for conflicts of interest, overt, or otherwise. The AAN annually reviews its guidelines that govern industry participation to ensure that they are appropriate, comprehensive, and unambiguous and revises its guidelines as necessary. The AAN has a process for identifying and resolving conflicts of interest in regards to AAN education or scientific programs. The AAN's "Principles Governing Academy Relationships with External Sources of Support" ensure that:

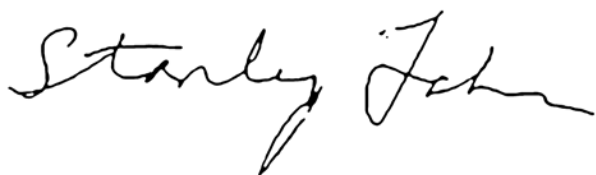
The AAN is solely responsible, with no influence from industry, for selection of topics, content, format, and faculty and directors of education and scientific programs.

For all Annual Meeting events and educational programming the AAN strictly adheres to the Principles, recently amended in 2010, the AAN Policy on Conflicts of Interest, and the Council of Medical Specialty Societies' "Code for Interactions with Companies" (of which AAN is a signatory). In addition, the AAN's Annual Meeting policies and processes are based on, and closely follow, guidelines established by the Accreditation Council for Continuing Medical Education, American Medical Association, and US Food and Drug Administration.

Programs at the Annual Meeting are developed and implemented solely by the AAN's Education Committee, Science Committee, their respective subcommittees, and AAN staff. Industry influence or promotion on slides or computer-based presentations is prohibited, and any use of product brand names should be avoided. All speakers must personally disclose, in writing, any relationships with industry, regardless of whether these relate to a specific presentation or not. The Education Committee and Science Committee, with their respective subcommittees, are responsible for resolving conflicts of interests prior to the learning activity. These disclosures are published in *Neurology*<sup>®</sup>, AAN Annual Meeting publications, and on the AAN Annual Meeting website. Industry and presenters are required to sign letters of agreement explicitly stating that they understand and will adhere to the AAN guidelines. The AAN Foundation established a Corporate Roundtable, comprised of representatives from industry, which promotes awareness of, and compliance with, the AAN's policies governing industry participation in the Annual Meeting and other activities.

The great majority of the AAN's industry supporters and presenters abide by the AAN guidelines, but occasional infractions do occur. Although most of these are minor, the AAN specifies sanctions for those who violate its guidelines. In addition, the AAN has revised all education and scientific evaluation forms to provide attendees with an opportunity to report any perceived conflicts of interest. Although the Meeting Management Committee deals with infractions and perceptions of bias in a rigorous and impartial manner, the Committee reserves the right to seek input on these issues from the Ethics, Law, and Humanities Committee (a joint committee of the ANA, CNS, and AAN).

The AAN values industry support. However, the AAN cannot and will not compromise the independence and credibility of its programs. Appropriate guidelines and input from attendees are essential components of managing these relationships so that the AAN maintains its integrity as an organization and the confidence of the medical profession. Questions related to these issues may be addressed to Stanley Fahn, MD, FAAN, Chair, Meeting Management Committee.



Stanley Fahn, MD, FAAN, Chair, Meeting Management Committee



Lisa DeAngelis, MD, FAAN, Chair, Science Committee and Scientific Program Subcommittee



Cynthia L. Comella, MD, FAAN, Education Committee and Chair, Annual Meeting Subcommittee



# Annual Meeting Program Listing by Topic

## Aging/Dementia/Degenerative Disease

- IKP.008 Assessment of Rapidly Progressive Dementias and Related Neurologic Conditions
- 2MR.001 Morning Report: Memory Disorders
- 2AC.004 Non-Alzheimer's Dementia
- SID A/D** 2PC.005 White Matter Disease in Cognitive Aging
- SID A/D** IN4 Non-memory Systems in the Brain
- 3ES.004 Improving Accuracy of Dementia Diagnosis: Case Studies with Both Imaging and Neuropathology
- SID A/D** 3PC.005 Neuropsychiatry
- P01 Poster Session I
- P02 Poster Session II
- 4SM.004 Mild Cognitive Impairment: Implications for Clinicians
- 4PC.003 Cumulative Sports Concussion and Risk of Dementia
- S04 Aging and Dementia: Therapeutic Interventions
- S14 Aging and Dementia: Diagnosis and Biomarkers
- P03 Poster Session III
- S24 Aging and Dementia: Clinical Aspects and Epidemiology
- P04 Poster Session IV
- P05 Poster Session V
- S34 Aging and Dementia: Imaging  
Geriatric Neurology Highlights in the Field
- 6SM.002 What Neurologists Really Need to Know About Normal Pressure Hydrocephalus
- P07 Poster Session VII
- S54 Aging and Dementia: Genetics
- 7SM.004 Differential Diagnosis of Dementia: Linking Clinical Syndromes to Biomarkers
- 7FC.002 Dementia Update
- 8SM.002 Vascular Cognitive Impairment and Dementia: Current Status and Future

## Cerebrovascular Disease

- IKP.001 The Neurohospitalist Model: Why, How, and Implications Thereof
- IKP.005 Surviving Stroke Call: A Guide for Nonvascular Neurologists
- 2NF.002 Neuro Flash: Acute Stroke Management
- SID CV** 2AC.007 What's in a Stroke Center: Members, Services, Organization and Roles
- SID CV** IN2 The Essential Role of Neurologists in Treating and Preventing Stroke
- 3AC.001 Stroke in Children and Neonates
- SID CV** 3AC.006 Vascular Contributions to Cognitive Impairment and Dementia: Diagnosis, Prevention, and Treatments
- 3FC.002 Cerebrovascular Disease
- P01 Poster Session I
- P02 Poster Session II

- S03 Reperfusion Therapy for Acute Ischemic Stroke
- S09 Interventional Neurology
- P03 Poster Session III
- S13 Disparities in and Risk Factors for Ischemic Stroke
- S19 Ischemic Cerebrovascular Disease and Subarachnoid Hemorrhage
- P04 Poster Session IV
- 5PW.001 Acute Stroke Alert Skills Workshop
- P05 Poster Session V
- S23 Intracerebral and Subarachnoid Hemorrhage
- S33 Carotid Disease, Aneurysms, and Apnea
- S39 Evaluating the Causes and Effects of Stroke  
Endovascular and Interventional Neurology Highlights in the Field
- 6NF.002 Neuro Flash: Thunderclap Headache: The Big, the Bad and the Ugly
- P06 Poster Session VI
- 6PC.004 Update on Endovascular Treatment of Cerebrovascular Diseases
- P07 Poster Session VII
- S43 Biology and Biomarkers of Cerebrovascular Disease
- S53 Stroke Genetics, Stem Cells, and Cognition
- 7SM.002 Therapeutic Hypothermia
- 7TP.001 Therapy of Stroke
- SID CN** 7PC.006 Neurodevelopmental Disorders

## Child Neurology

- 2ES.002 EEG in Children: Developmental Maturation, Variants, Epilepsy Syndromes, and Identification of Surgical Candidates
- 2AC.002 Child Neurology I
- 2PC.002 Child Neurology II
- 3AC.001 Stroke in Children and Neonates
- P02 Poster Session II
- P03 Poster Session III
- P04 Poster Session IV
- S28 Child Neurology
- P05 Poster Session V
- 6SM.003 Attention Deficit Hyperactivity Disorder Across the Lifespan
- SID CN** 6PC.005 Rett Syndrome
- P07 Poster Session VII
- 7NF.002 Neuro Flash: Child Neurology
- SID CN** IN10 Pediatric Movement Disorders
- SID CN** 7PC.006 Neurodevelopmental Disorders
- 8SM.003 Pediatric Pseudotumor Cerebri: From Diagnosis to Treatment

# Annual Meeting Program Listing by Topic

## **Cognitive Neurology/Neurologic Disorders Presenting with Psychiatric Symptoms**

- 2MR.001 Morning Report: Memory Disorders  
IN4 Non-memory Systems in the Brain  
P02 Poster Session II  
P04 Poster Session IV  
5SM.005 The Neurology of Social Behavior  
S29 Moving Toward Treatment  
6SM.003 Attention Deficit Hyperactivity Disorder Across the Lifespan  
S44 Genetics, Anatomy, and Behavior  
P07 Poster Session VII  
Behavioral Neurology Highlights in the Field  
6CS.005 Case Studies in Behavioral Neurology  
7AC.006 Traumatic Brain Injury  
7PC.002 Primer of Behavioral Neurology  
8SM.002 Vascular Cognitive Impairment and Dementia: Current Status and Future  
8AC.006 Psychiatry for the Neurologist

## **Critical Care/Emergency Neurology/Trauma**

- 2AC.006 Emergency Room Neuro-ophthalmology  
2FC.002 Neurologic Intensive Care  
P02 Poster Session II  
4PC.003 Cumulative Sports Concussion and Risk of Dementia  
6NF.002 Neuro Flash: Thunderclap Headache: The Big, the Bad and the Ugly  
S47 Critical Care/Emergency Neurology/Trauma  
Sports Neurology Highlights in the Field  
Critical Care Highlights in the Field  
7SM.002 Therapeutic Hypothermia  
7PC.004 Emergency Neurology  
8ES.002 Acute Encephalopathy  
8AC.003 Consultations in the Medical Surgical ICU

## **Demyelinating Disorders/Multiple Sclerosis and Related Diseases**

- 1AC.003 Diagnostic Dilemmas in Multiple Sclerosis  
1KP.003 Multiple Sclerosis Essentials  
2NF.003 Neuro Flash: MRI and Multiple Sclerosis  
3MR.001 Morning Report: Multiple Sclerosis  
3AC.003 Multiple Sclerosis Overview I: Basic Science  
3PC.002 Multiple Sclerosis Overview II: Clinical Advances  
P01 Poster Session I  
P02 Poster Session II  
S01 Multiple Sclerosis: Clinical Trials: Clinical Outcomes

- S10 Multiple Sclerosis: CCSVI and Other Clinical Outcomes  
P03 Poster Session III  
S11 Multiple Sclerosis: Clinical Trials: Imaging Outcomes  
S20 Multiple Sclerosis: Genetics  
P04 Poster Session IV  
S21 Multiple Sclerosis: Imaging Advances  
S30 Multiple Sclerosis: Clinical Interventions and Clinical Trials  
P05 Poster Session V  
S31 Multiple Sclerosis: Immunology: Mechanism of Action  
S40 Multiple Sclerosis: Immunology: Biomarkers and Disease Mechanism  
Multiple Sclerosis Highlights in the Field  
P06 Poster Session VI  
S41 Multiple Sclerosis: Clinical Trials: Safety  
S50 Multiple Sclerosis: Imaging: Clinical Phenotype  
P07 Poster Session VII  
S51 Multiple Sclerosis: Imaging: Cognition  
S60 Multiple Sclerosis: Biomarkers: Clinical Phenotype  
6CS.002 Case Studies: Multiple Sclerosis  
7AC.005 Clinical Issues in Multiple Sclerosis  
7TP.002 Therapy of Multiple Sclerosis  
8ES.001 Criteria for Stopping and Starting Multiple Sclerosis Therapy  
8AC.002 Neuromyelitis Optica: Scientific and Clinical Update

## **Epilepsy/Clinical Neurophysiology (EEG)**

- 1KP.004 Recognition and Management of the Many Types of Status Epilepticus  
2ES.002 EEG in Children: Developmental Maturation, Variants, Epilepsy Syndromes, and Identification of Surgical Candidates  
2FC.001 Clinical Epilepsy  
**SEP** 3AC.007 Emerging Techniques and Directions in Epilepsy  
3SW.001 Neurophysiologic Intraoperative Monitoring  
**SEP** IN5 Epilepsy and Channelopathies  
P01 Poster Session I  
P02 Poster Session II  
**SEP** 4PC.005 Current Controversies in Epilepsy: Brain Injury and Cognitive Consequences  
P03 Poster Session III  
S06 Epilepsy: Epidemiology  
P04 Poster Session IV  
P05 Poster Session V  
S26 Epilepsy: Molecular and Genetics

# Annual Meeting Program Listing by Topic

## Clinical Neurophysiology/Autonomic Nervous System Highlights in the Field

- 6NF.001 Neuro Flash: Epilepsy  
P06 Poster Session VI  
6NP.001 Epilepsy Skills Pavilion  
S46 Epilepsy: Clinical  
P07 Poster Session VII  
S56 Epilepsy: Therapy  
S58 Clinical Neurophysiology  
Epilepsy Highlights in the Field  
7FC.003 Clinical EEG  
8AC.004 How to Analyze Spells by Video-EEG

## Ethics/Professionalism

- 3ES.003 Contemporary Issues in Neuro-Palliative Care  
4PC.004 Practical Legal Issues for Neurologists  
5SM.002 Case Studies: Clinical Ethics, Professionalism, and Evidence-based Care of Patients with Severe Life-limiting Neurologic Disease  
5EC.001 Ethics Colloquium  
Ethics Highlights in the Field  
S38 Ethics  
P07 Poster Session VII

## General Neurology/Neurology of Systemic Disease

- 1KP.007 Borderlands of Neurology and Internal Medicine  
2ES.001 Clinical E-Pearls  
2AC.005 Sports Neurology  
2FC.004 Therapy in Neurology  
2PC.003 Autoimmune Neurology  
3SM.003 Global Health Challenges: Neurology in Developing Countries  
3FC.005 Neurology Update I  
3PC.003 *Continuum*<sup>®</sup> Test Your Knowledge: A Multiple-Choice Question Review  
P01 Poster Session I  
S08 Neurologic Manifestations of Systemic Disease  
P03 Poster Session III  
P04 Poster Session IV  
5PC.003 Women's Neurologic Issues in Pregnancy  
5PC.002 Neurology Telemedicine Systems  
General Neurology Highlights in the Field  
6PC.003 Neurologic Complications of Medical Disease  
P07 Poster Session VII  
Sports Neurology Highlights in the Field  
Government Services Highlights in the Field

- 7FC.004 Neurology Update II  
7PC.004 Emergency Neurology  
8AC.006 Psychiatry for the Neurologist

## Headache

- 2AC.001 Tips, Tools, and Tricks to Diagnose and Treat Primary Headache Disorders  
2PC.001 Advances in Chronic Migraine  
3NF.002 Neuro Flash: Opioid Therapy for Headache and Neuropathic Pain Syndromes: Consensus and Controversies  
S16 Headache I  
P03 Poster Session III  
P04 Poster Session IV  
S36 Headache II  
Headache Highlights in the Field  
6NF.002 Neuro Flash: Thunderclap Headache: The Big, the Bad and the Ugly  
6PC.001 Hot Topics in Headaches and Related Disorders  
7MR.001 Morning Report: Challenging Headache Cases  
7TP.004 Therapy of Headache

## History of Neurology

- 3SM.005 Archival Neurologic Films  
4PC.002 History of Neurology: The Origins of the Neurological Examination  
P04 Poster Session IV  
S59 History of Neurology

## Imaging

- 2NF.003 Neuro Flash: MRI and Multiple Sclerosis  
2PC.004 Spine Neuroimaging: Clinical-Radiologic Correlation  
3AC.003 Multiple Sclerosis Overview I: Basic Science  
3ES.004 Improving Accuracy of Dementia Diagnosis: Case Studies with Both Imaging and Neuropathology  
Neuroimaging Highlights in the Field  
6CS.001 Case Studies: Neuroimaging  
7FC.001 Update in Neuroimaging: Essentials and Beyond-Part I  
8AC.001 Update in Neuroimaging: Essentials and Beyond-Part II

## Infectious Disease/AIDS/Prion Disease

- 2FC.005 Infections of the Nervous System  
3SM.003 Global Health Challenges: Neurology in Developing Countries  
3NF.001 Neuro Flash: Approach to Acute CNS Infections  
P01 Poster Session I  
P03 Poster Session III  
S37 Infections I  
Neuro-infectious Disease Highlights in the Field

# Annual Meeting Program Listing by Topic

- P06 Poster Session VI  
S57 Infections II  
7SM.003 Vaccines and Neurologic Adverse Events

## Movement Disorders

- 1AC.002 Deep Brain Stimulation Management  
2FC.003 Movement Disorders  
**MD** 3AC.008 Impulse Control Disorders and Reward Mechanisms in Movement Disorders  
**MD** IN6 Plasticity in Basal Ganglia Therapy  
P01 Poster Session I  
4SM.003 The Dystonias: Diagnosis, Treatment, and Update on Causes  
P02 Poster Session II  
**MD** 4PC.006 Myoclonus  
S02 Treatment of Parkinson's Disease  
P03 Poster Session III  
S12 Ataxia and Cerebellar Disease  
5SM.003 Psychogenic Movement Disorders  
P04 Poster Session IV  
5PC.004 Parkinson's Disease and Movement Disorders Update  
S22 Pathophysiology and Diagnosis of Parkinson's Disease  
P05 Poster Session V  
S32 Hyperkinetic Disorders: Essential Tremor, Tourette's Syndrome, and Huntington's Disease  
6SM.001 Hallucinations in Parkinson's Disease  
P06 Poster Session VI  
S42 Epidemiology of Parkinson's Disease  
P07 Poster Session VII  
S52 Parkinson's Disease: Non-Motor Symptoms  
Movement Disorders Highlights in the Field  
6CS.003 Case Studies: Unusual Movement Disorders  
7SM.001 Balance and Gait Disorders  
7AC.004 Botulinum Toxins: Practical Issues and Clinical Uses for Neurologists  
IN10 Pediatric Movement Disorders  
7TP.003 Therapy of Movement Disorders  
7PW.001 Clinical Usefulness of Botulinum Toxin and Treatment of Dystonia  
8SM.004 Update on Ataxias  
8SM.006 Learning Movement Disorders in Hindsight: Lessons From My Patients

## Neurogenetics

- 2SM.001 Introduction to Genetics  
3AC.003 Multiple Sclerosis Overview I: Basic Science  
3FC.001 Genetics in Neurology

- IN7 Mitochondrial Diseases in Neurology  
IN8 Stem Cells  
IN9 RNA Metabolism in Neurodegeneration  
7AC.001 Diagnosis and Management of Leukodystrophies

## Neurometabolic Disorders/Neurotoxicology/ Neuroendocrinology

- 3SM.001 Mitochondrial Disorders in Neurology  
5SM.001 Neurotoxicology  
Neuroendocrinology Highlights in the Field

## Neuromuscular Disease/Clinical Neurophysiology (EMG)/Anterior Horn/Autonomic Disorders/ Peripheral Nerve

- 1AC.004 Neuromuscular Junction Disorders  
**PN** 1PC.001 Peripheral Neuropathy Therapy  
1KP.006 Diagnostic Testing in Neuromuscular Disease  
**PN** IN1 Peripheral Nerve Regeneration  
2SW.001 EMG Skills Workshop: Basic  
**PN** 2PC.006 Inherited Neuropathies: From Bench to Bedside  
3FC.004 Peripheral Neuropathy  
3PC.006 Evaluation and Management of Autonomic Disorders  
P01 Poster Session I  
4NP.001 Neurology Skills Pavilion: Neuromuscular Bedside Rounds  
S05 Anterior Horn: Basic Science and Genetics  
S07 Peripheral Neuropathy Advances  
P03 Poster Session III  
S15 Muscular Dystrophy  
5SM.006 Small Fiber Neuropathies: Sensory, Autonomic or Both  
P04 Poster Session IV  
S25 Anterior Horn  
S27 Genetics and Molecular Mechanisms  
P05 Poster Session V  
S35 Autoimmune Myasthenia Gravis and Inflammatory Myopathy  
Clinical Neurophysiology/Autonomic Nervous System Highlights in the Field  
P06 Poster Session VI  
6SW.001 Advanced Techniques in EMG and Neuromuscular Disease  
6PC.002 Clinical EMG I  
P07 Poster Session VII  
S55 Muscle Disorders  
S58 Clinical Neurophysiology  
Neuromuscular Highlights in the Field  
6CS.004 Case Studies: Unusual Diagnostic and Management of Cases in Neuromuscular Disease

# Annual Meeting Program Listing by Topic

- 7AC.002 Clinical EMG II
- 7TP.005 Therapy of Neuromuscular Disease
- 8SM.005 You Make the Call—An Interactive, Multimedia, Case-based Approach to Learning EMG
- 8AC.005 Clinical Approach to Muscle Disease

## Neuro-oncology

- 3AC.005 Neuro-oncology: Primary Brain Tumors
- 3PC.004 Neurologic Complications of Systemic Cancer
- 4SM.001 Case Studies in Neuro-oncology
- P03 Poster Session III
- P04 Poster Session IV  
Neuro-oncology Highlights in the Field
- P06 Poster Session VI
- S45 Neuro-oncology
- P07 Poster Session VII

## Neuro-ophthalmology/Neuro-otology

- 1KP.002 Top 10 Neuro-ophthalmic Diagnoses You Can't Afford to Miss
- 2AC.006 Emergency Room Neuro-ophthalmology
- 3ES.002 Eye Movement Disorders: A Systematic Approach to the Evaluation of Diplopia
- 3FC.003 Neuro-ophthalmology
- 4SM.005 Nystagmus: An Organized Approach
- P02 Poster Session II
- 5NP.001 Neurology Skills Pavilion: Neuro-ophthalmology and Neurovestibular Exam Lab  
Neuro-ophthalmology/Neuro-otology Highlights in the Field
- S48 Neuro-ophthalmology
- P07 Poster Session VII
- 7NF.001 Neuro Flash: Neuro-ophthalmology
- 7PC.001 Neuro-otology
- 8SM.003 Pediatric Pseudotumor Cerebri: From Diagnosis to Treatment
- 8SM.007 Common and Important Ophthalmoscopic Findings

## Neural Repair/Rehabilitation

- 2AC.005 Sports Neurology
- P01 Poster Session I
- P02 Poster Session II
- 5SM.004 Brain Computer Interfaces: Frontiers in Neurology and Neuroscience
- S49 Neural Repair
- 7AC.006 Traumatic Brain Injury

## Pain and Palliative Care

- 3NF.002 Neuro Flash: Opioid Therapy for Headache and Neuropathic Pain Syndromes: Consensus and Controversies
- 3ES.003 Contemporary Issues in Neuro-Palliative Care
- 4PC.001 Pain Management Basics: A Primer for Neurologists
- 7PC.005 Common Spine Disorders

## Practice Management

- 1FC.001 The Practice of Neurology: Issues in Coding and Reimbursement
- 1EC.001 BRAINS Colloquium
- 1KP.001 The Neurohospitalist Model: Why, How, and Implications Thereof
- 2SM.002 Starting Your Career: The Early Years
- 2SM.003 Practice Survival for Neurologists: Business Strategies for Success
- 2EC.001 Patient Safety Colloquium
- 2EC.002 Practice Colloquium: Prepare Your Practice for the Future: What Will the Practice of Neurology Look Like in 2017?
- 3ES.001 Making Sure Your Electronic Health Record System Is a Success
- 3AC.002 Clinical Practice Survival Guide
- 3PC.001 Bedside Evidence-Based Medicine: How to Deconstruct Articles in Order to Take Care of Patients
- 4SM.002 E/M: Minimize Mistakes, Maximize Reimbursement
- 5PC.002 Neurology Telemedicine Systems

## Research/Education

- 1EP.001 Clerkship and Program Directors Conference
- 1AC.001 Resident Basic Science I: Neuropathology
- 1EC.001 BRAINS Colloquium
- 1PC.002 Resident Basic Science II: Functional Neuroanatomy
- 2AC.003 Resident Basic Science III: Neuropharmacology
- 2SM.004 Clinical Grant Writing
- 2EC.003 Clinical Research Colloquium
- 3SM.002 Career Development for Clinician Educators
- IN3 Biomarkers in Neurological Diagnosis and Therapeutic Monitoring  
Neurologic Education Highlights in the Field
- 3EC.002 International Colloquium
- 3EC.004 Research Coordinator Colloquium
- 3EC.003 Education Research Colloquium
- 4EC.001 NIH and the Practice of Neurology: What's New? What's Next?
- S17 Neurologic Education
- 5SM.007 Editor's Seminar: Tips for Writing and Reviewing in *Neurology*<sup>®</sup>

# Annual Meeting Program Listing by Topic

- P06 Poster Session VI  
P07 Poster Session VII  
7SC.001 Future of Neuroscience Conference: Neurotranslation: Neurologists and Neuroscientists Defining the Next Generation of CNS Therapies

## Sleep Disorders

- 2NF.001 Neuro Flash: Sleep Medicine  
3AC.004 Sleep for the Practicing Neurologist  
S18 Sleep Disorders  
P05 Poster Session V  
Sleep Medicine Highlights in the Field  
7AC.003 Sleep Disorders in Clinical Neurology  
7PC.003 Special Topics in the Neurology of Sleep  
8SM.001 Sleep in CNS Disorders

## Spinal Cord/Nerve Root Disorders

- 2AC.005 Sports Neurology  
2PC.004 Spine Neuroimaging: Clinical-Radiologic Correlation  
3SM.004 Spine and Spinal Cord Emergencies  
5SM.004 Brain Computer Interfaces: Frontiers in Neurology and Neuroscience  
5PC.001 Myelopathies  
7PC.005 Common Spine Disorders

## Subspecialty in Focus

- SIF>PN** 1PC.001 Peripheral Neuropathy Therapy  
**SIF>PN** IN1 Peripheral Nerve Regeneration  
**SIF>CV** 2AC.007 What's in a Stroke Center: Members, Services, Organization and Roles  
**SIF>A/D** 2PC.005 White Matter Disease in Cognitive Aging  
**SIF>PN** 2PC.006 Inherited Neuropathies: From Bench to Bedside  
**SIF>CV** IN2 The Essential Role of Neurologists in Treating and Preventing Stroke  
**SIF>A/D** IN4 Non-memory Systems in the Brain  
**SIF>CV** 3AC.006 Vascular Contributions to Cognitive Impairment and Dementia: Diagnosis, Prevention, and Treatments  
**SIF>EP** 3AC.007 Emerging Techniques and Directions in Epilepsy  
**SIF>MD** 3AC.008 Impulse Control Disorders and Reward Mechanisms in Movement Disorders  
**SIF>A/D** 3PC.005 Neuropsychiatry  
**SIF>MD** IN6 Plasticity in Basal Ganglia Therapy  
**SIF>EP** IN5 Epilepsy and Channelopathies  
**SIF>EP** 4PC.005 Current Controversies in Epilepsy: Brain injury and Cognitive Consequences  
**SIF>MD** 4PC.006 Myoclonus  
**SIF>CN** 6PC.005 Rett Syndrome  
**SIF>CN** IN10 Pediatric Movement Disorders  
**SIF>CN** 7PC.006 Neurodevelopmental Disorders

## Women's Issues

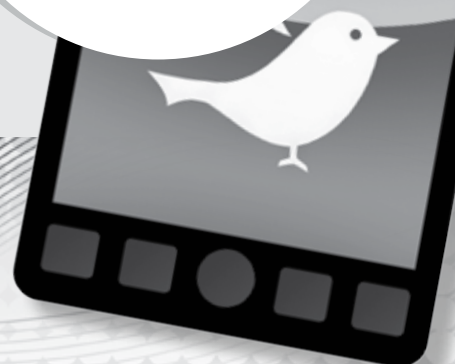
- 5PC.003 Women's Neurologic Issues in Pregnancy

## We Need Your Help

The AAN is looking for your help to tweet the latest and greatest from a number of high-profile sessions at the Annual Meeting. Contact [twitter@aan.com](mailto:twitter@aan.com) for more information on how you can help us share the buzz at the heart of breaking news in New Orleans!



Join the  
Annual Meeting  
Buzz!



# Celebration for Research

## Celebration for Research

Sunday, April 22, 6:00 p.m.–11:00 p.m.

New Orleans Ernest N. Morial Convention Center

### Neurobowl®

6:00 p.m.–8:00 p.m.

### Main Stage:

### Mardi Gras Extravaganza

Featuring Rockin' Dopsie Jr.  
and the Zydeco Twisters

8:30 p.m.–11:00 p.m.

### Neuro Film Festival®

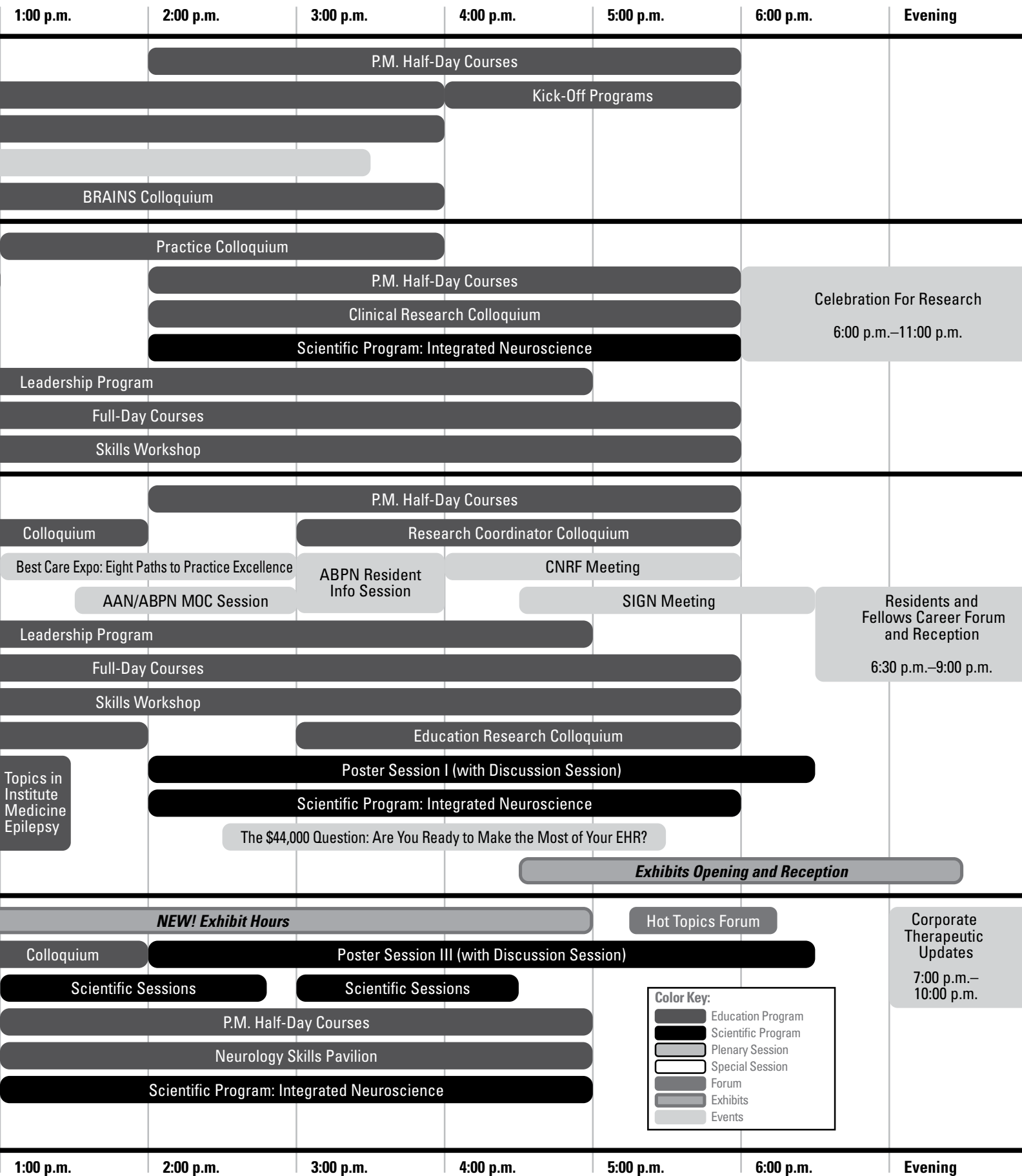
8:30 p.m.–11:00 p.m.

Sponsored by PSAV® Presentation Services

# Meeting-At-A-Glance

	7:00 a.m.	8:00 a.m.	9:00 a.m.	10:00 a.m.	11:00 a.m.	12:00 p.m.
SAT. 04.21		A.M. Half-Day Courses				
		Clerkship and Program Directors Conference				
		Full-Day Course				
			Brain Health Fair			
SUN. 04.22	Neuro Flashes		Patient Safety Colloquium			
	Morning Report		A.M. Half-Day Courses			
	Seminars			Seminars		
		Scientific Program: Integrated Neuroscience				
	Extended Seminars			Physician		
	Extended Seminars			Physician		
	Extended Seminars			Physician		
MON. 04.23	Neuro Flashes		A.M. Half-Day Courses			
	Morning Report		Education Colloquium			International
	Extended Seminars			Seminars		
		Scientific Program: Integrated Neuroscience				
	Seminars			Physician		
		AAN Business Meeting		Physician		
				Physician		
				Extended Seminar		Hot Education: of Report on
TUES. 04.24	Run/Walk for Brain Research					
	Seminars					NIH/NINDS
	Poster Session II (with Discussion Session)					New Fellow and 50-Year Member Luncheon
			Presidential Plenary Session			





**Color Key:**

- Education Program
- Scientific Program
- Plenary Session
- Special Session
- Forum
- Exhibits
- Events

# Meeting-At-A-Glance

7:00 a.m.

8:00 a.m.

9:00 a.m.

10:00 a.m.

11:00 a.m.

12:00 p.m.

WED. 04.25

Seminars

Poster Session IV (with Discussion Session)

Contemporary Clinical Issues Plenary Session

Awards Luncheon

THURS. 04.26

Seminars

Neuro Flashes

Frontiers in Translational Neuroscience  
Plenary Session

**NEW!** Exhibit Hours

Poster Session VI (with Discussion Session)

FRI. 04.27

Seminars

Neuro Flashes

Morning Reports

Future of Neuroscience

Full-Day Courses

A.M. Half-Day Courses

Therapy

Scientific Program: Integrated Neuroscience

Clinical Trials

Seminars

Therapy Program

SAT. 04.28

Extended Seminars

Seminars

A.M. Half-Day Courses

Seminars

New Fellow and  
50-Year Member  
Luncheon

7:00 a.m.

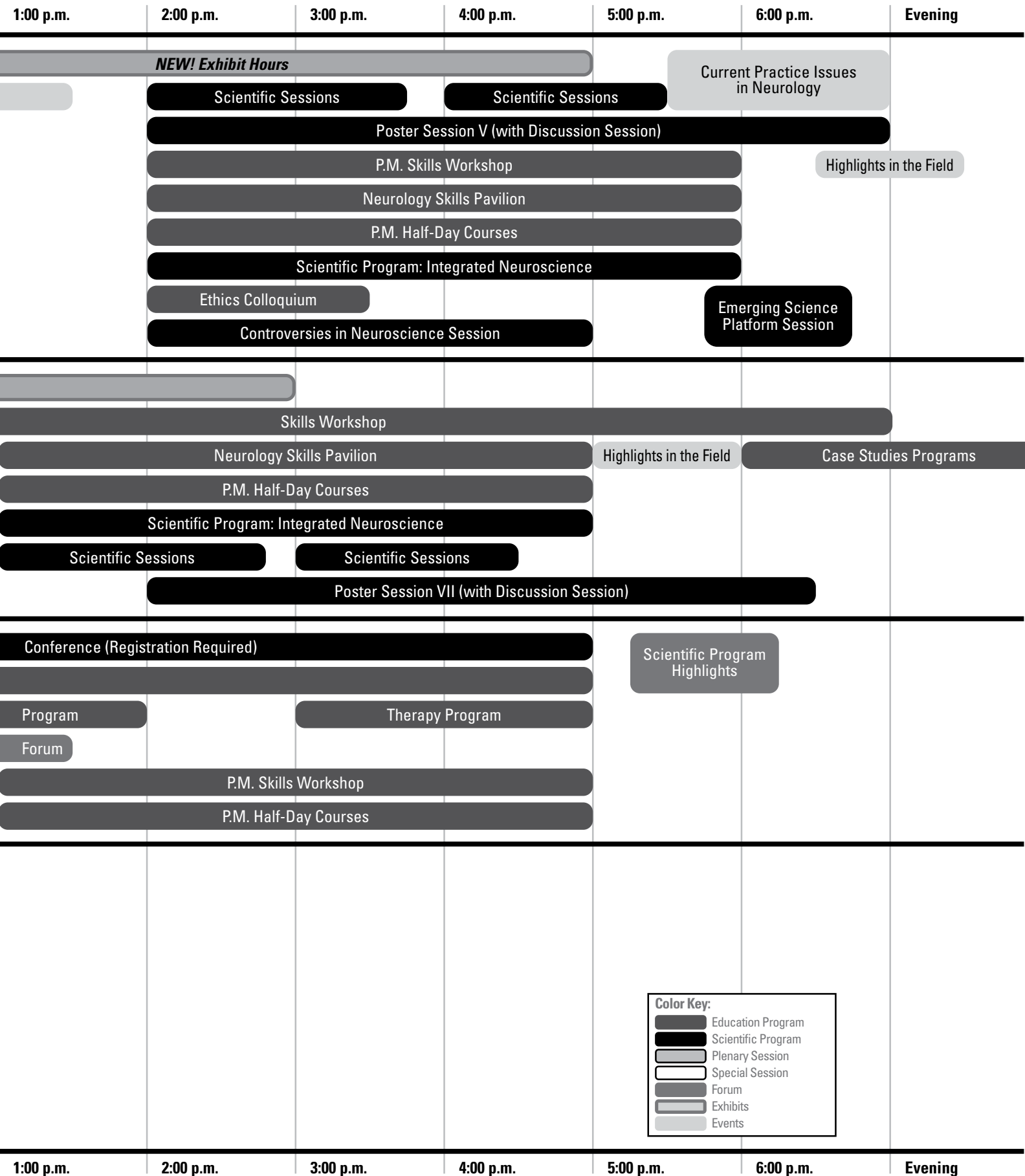
8:00 a.m.

9:00 a.m.

10:00 a.m.

11:00 a.m.

12:00 p.m.



**Color Key:**

- Education Program
- Scientific Program
- Plenary Session
- Special Session
- Forum
- Exhibits
- Events

# Scientific Program Highlights



*“The AAN Annual Meeting Scientific Program just keeps getting bigger and better every year. We had a record 3,023 abstracts submitted for the 2011 Annual Meeting and look forward to yet another exciting Scientific Program in New Orleans.*”

*While we’ve renamed our highly popular Plenary Sessions to more accurately describe their format, one thing that hasn’t changed is their cutting-edge content—from presentation of the AAN named lecturers at the Presidential Plenary Session, to notable developments in the field leading up to the Annual Meeting at the Hot Topics Forum.*

*Also new this year is the exciting debate-style Controversies in Neuroscience Session where speakers will be paired in a questions-and-answers debate in five different hot topic areas, including ALS, carotid stenting vs. surgery, Alzheimer disease biomarkers, autism and Tourette therapy, and child neurology training.*

*Breakthrough research is always one of the Annual Meeting’s biggest draws, and New Orleans will be no exception. You’ll get the opportunity to explore in-depth, translational neuroscience during the popular Future of Neuroscience Conference. As well, ten Integrated Neuroscience Sessions (INS) will feature expert faculty and top researchers presenting insightful, comprehensive examinations of movement disorders, aging, ALS, cell biology, stem cell groups, epilepsy, child neurology, peripheral nerves, and neurogenetics.*

*Due to popular demand, we’ve also expanded the Specialist in Focus sessions from four to six for 2012. These unique programs have us partnering with the Child Neurology Society, American Heart Association/American Stroke Association, Movement Disorder Society, Peripheral Nerve Society, and the American Epilepsy Society to bring attendees more of the in-depth, intensive, subspecialty programming you’ve been asking for.*

*I look forward to seeing you in beautiful New Orleans and know your 2012 Annual Meeting experience will give you new insights, knowledge, and skills to care for your patients and excel in your profession.”*

—Lisa M. DeAngelis, MD, FAAN  
Chair, AAN Science Committee

## Scientific Highlights

### Newly Renamed Sessions

The AAN offers several large-venue programs highlighting some of the best in science and research. Many of these popular sessions have been renamed to more accurately describe their format and content. There are three plenary sessions scheduled in the morning. They are as follows:

#### **Tuesday, April 24**

Presidential Plenary Session  
9:00 a.m.–12:00 p.m.

#### **Wednesday, April 25**

Contemporary Clinical Issues  
Plenary Session  
9:00 a.m.–12:00 p.m.

#### **Thursday, April 26**

Frontiers in Translational Neuroscience  
Plenary Session  
9:00 a.m.–11:00 a.m.

Two afternoon forums tackle emerging topics and information:

#### **Tuesday, April 24**

Hot Topics Forum  
5:15 p.m.–6:15 p.m.

#### **Friday, April 27**

Clinical Trials Forum  
12:00 p.m. – 1:30 p.m.

A session that summarizes several scientific presentations occurring earlier at the meeting.

#### **Friday, April 27**

Scientific Program Highlights  
5:15 p.m. – 6:15 p.m.

## **NEW! Controversies in Neuroscience Session**

### **Wednesday, April 25**

2:00 p.m.–5:00 p.m.

Join 10 experts in their fields as they discuss five of today’s most controversial topics in neuroscience. Using the debate format, two speakers will take questions and answers—and challenge each other’s knowledge—in each of the following five topic areas:

- ALS (Pacer/TROPHOS trials)
- Stenting vs. Surgery (CREST trial)
- CSF and Alzheimer’s Disease biomarkers
- Autism/Tourette’s therapy
- How much adult neurology training does a child neurologist need?

For more information, visit  
[www.aan.com/go/am12/science](http://www.aan.com/go/am12/science).

## Ten Integrated Neuroscience Sessions

Offers an in-depth look at subspecialty areas using a variety of presentations, including data blitz sessions, poster rounds, panel discussions, and invited speaker sessions.

### Sunday, April 22

8:00 a.m.–12:00 p.m.

Peripheral Nerve Regeneration

2:00 p.m.–6:00 p.m.

The Essential Role of Neurologists in Treating and Preventing Stroke

### Monday, April 23

8:00 a.m.–12:00 p.m.

Biomarkers in Neurological Diagnosis and Therapeutic Monitoring

8:00 a.m.–12:00 p.m.

Non-memory Systems in the Brain

2:00 p.m.–6:00 p.m.

Epilepsy and Channelopathies

2:00 p.m.–6:00 p.m.

Plasticity in Basal Ganglia Therapy

### Tuesday, April 24

1:00 p.m.–5:00 p.m.

Mitochondrial Diseases in Neurology

### Wednesday, April 25

2:00 p.m.–6:00 p.m.

Stem Cells

### Thursday, April 26

1:00 p.m.–5:00 p.m.

RNA Metabolism in Neurodegeneration

### Friday, April 27

8:00 a.m.–12:00 p.m.

Pediatric Movement Disorders

## Six Subspecialty in Focus Sessions

Subspecialty in Focus sessions are advanced educational topics combined with six of the Integrated Neuroscience programs noted above. Subspecialists will have more chances to delve deep into their areas of expertise with their peers over a one-and-a-half-day period. Registration is necessary to attend these programs. Subspecialty in Focus programs are identified with SIF logo throughout the book.

- Subspecialty in Focus: Peripheral Nerve  
*In partnership with the Peripheral Nerve Society and the AAN Neuromuscular Section*
- Subspecialty in Focus: Cerebrovascular Disease  
*In partnership with the American Heart Association/*

*American Stroke Association and the AAN Stroke and Vascular Neurology Section.*

- Subspecialty in Focus: Child Neurology  
*In partnership with the Child Neurology Society and the AAN Child Neurology Section*
- Subspecialty in Focus: Aging/Dementia/Degenerative Disease  
*In partnership with the AAN Behavioral Neurology Section and the AAN Geriatric Neurology Section*
- Subspecialty in Focus: Epilepsy  
*In partnership with the American Epilepsy Society and the AAN Epilepsy Section*
- Subspecialty in Focus: Movement Disorders  
*In partnership with The Movement Disorder Society and the AAN Movement Disorders Section*

## Future of Neuroscience Conference: Neurotranslation: Neurologists and Neuroscientists Defining the Next Generation of CNS Therapies

Friday, April 27, 9:00 a.m.—5:00 p.m.

Program Director Jeffrey D. Rothstein, MD, PhD, will lead an expert faculty in discussing the recent paradigm shift in translating clinical and basic neuroscience discoveries from the laboratory to the development of novel drugs (small molecule), gene therapy, and protein therapeutics. **Registration is required.**

### Program Issue— Now Online Only!

In an effort to be conscious of the environment and to begin establishing a searchable archive of meeting abstracts, all scientific abstracts for the 2012 Annual Meeting will be available online through the Abstracts Online and *Neurology.org* websites. These online formats offer convenient search capabilities not found in print. Access is easy:

#### Abstracts Online

Visit [www.aan.com/go/am12/science](http://www.aan.com/go/am12/science) beginning February 22, 2012, and continue to access abstracts for a full year until February 2013. Abstracts Online even lets you build your itinerary!

#### Neurology

Visit [neurology.org](http://neurology.org) beginning early April, 2012. Abstracts will be available indefinitely.

## Education Highlights

### NEW! Hot Topics in Education: Institute of Medicine Report on Epilepsy

#### Monday, April 23

12:30 p.m.–1:30 p.m.

The Hot Topics in Education Session will address the April 2012 Institute of Medicine (IOM) report on the public health dimensions of epilepsy. The session will provide a unique forum combining a didactic overview, followed by a moderated panel discussion, and ending with audience questions and answers for a lively discussion on interpretations of and recommendations regarding the IOM report. The session is open to all Annual Meeting attendees.

### Suggest an Education Program for 2013 Annual Meeting in San Diego

The AAN invites you to submit an Education Program suggestion for the 65<sup>th</sup> Annual Meeting in San Diego, March 16 through 23, 2013. Proposals for new programs are due by **May 11, 2012**. Submit a proposal via the Annual Meeting website at [www.aan.com/go/am12/education](http://www.aan.com/go/am12/education). For questions or more information on the Annual Meeting Education Program, contact Amy Nostdahl at [anostdahl@aan.com](mailto:anostdahl@aan.com) or (651) 332-8687.

### Obtaining Your Annual Meeting Syllabi—Download in Advance

Obtaining your Education Program syllabi is quicker and easier than ever. All registered attendees will be able to download the full text syllabi for their selected programs. All registered attendees will receive an email notification once syllabi are available. Printed slides will be available in program rooms.

# 2012 Scientific Sessions at a Glance

## Sunday, April 22, 2012

**8:00 a.m. – 12:00 p.m. Integrated Neuroscience**  
**Session: Peripheral Nerve Regeneration**



- 8:00 a.m. – 10:00 a.m. Invited Speaker Session
- 10:00 a.m. – 11:00 a.m. Poster Rounds
- 11:00 a.m. – 11:30 a.m. Data Blitz
- 11:30 a.m. – 12:00 p.m. Panel Discussion/Debate

**2:00 p.m. – 6:00 p.m. Integrated Neuroscience**  
**Session: The Essential Role of Neurologists in Treating and Preventing Stroke**



- 2:00 p.m. – 4:00 p.m. Invited Speaker Session
- 4:00 p.m. – 5:00 p.m. Poster Rounds
- 5:00 p.m. – 5:30 p.m. Data Blitz
- 5:30 p.m. – 6:00 p.m. Panel Discussion/Debate

## Monday, April 23, 2012

**8:00 a.m. – 12:00 p.m. Integrated Neuroscience**  
**Session: Biomarkers in Neurological Diagnosis and Therapeutic Monitoring**

- 8:00 a.m. – 10:00 a.m. Invited Speaker Session
- 10:00 a.m. – 11:00 a.m. Poster Rounds
- 11:00 a.m. – 11:30 a.m. Data Blitz
- 11:30 a.m. – 12:00 p.m. Panel Discussion/Debate

**8:00 a.m. – 12:00 p.m. Integrated Neuroscience**  
**Session: Non-memory Systems in the Brain**



- 8:00 a.m. – 10:00 a.m. Invited Speaker Session
- 10:00 a.m. – 11:00 a.m. Poster Rounds
- 11:00 a.m. – 11:30 a.m. Data Blitz
- 11:30 a.m. – 12:00 p.m. Panel Discussion/Debate

**2:00 p.m. – 6:00 p.m. Integrated Neuroscience**  
**Session: Epilepsy and Channelopathies**



- 2:00 p.m. – 4:00 p.m. Invited Speaker Session
- 4:00 p.m. – 5:00 p.m. Poster Rounds
- 5:00 p.m. – 5:30 p.m. Data Blitz
- 5:30 p.m. – 6:00 p.m. Panel Discussion/Debate

**2:00 p.m. – 6:00 p.m. Integrated Neuroscience**  
**Session: Plasticity in Basal Ganglia Therapy**



- 2:00 p.m. – 4:00 p.m. Invited Speaker Session
- 4:00 p.m. – 5:00 p.m. Poster Rounds
- 5:00 p.m. – 5:30 p.m. Data Blitz
- 5:30 p.m. – 6:00 p.m. Panel Discussion/Debate

**2:00 p.m. – 6:30 p.m. Poster Session I**  
(with Poster Discussion Session)

## Tuesday, April 24, 2012

**7:30 a.m. – 12:00 p.m. Poster Session II**  
(with Poster Discussion Session)

**9:00 a.m. – 12:00 p.m. Presidential Plenary Session**

**1:00 p.m. – 2:45 p.m. Scientific Sessions**

- S01 Multiple Sclerosis: Clinical Trials: Clinical Outcomes  
*Presentation of the John Dystel Prize*
- S02 Treatment of Parkinson's Disease  
*Presentation of the Movement Disorders Research Award*
- S03 Reperfusion Therapy for Acute Ischemic Stroke
- S04 Aging and Dementia: Therapeutic Interventions  
*Presentation of the Potamkin Prize*
- S05 Anterior Horn: Basic Science and Genetics  
*Presentation of the Sheila Essey Award*
- S06 Epilepsy: Epidemiology
- S07 Peripheral Neuropathy Advances
- S08 Neurologic Manifestations of Systemic Disease
- S09 Interventional Neurology
- S10 Multiple Sclerosis: CCSVI and Other Clinical Outcomes

**1:00 p.m. – 5:00 p.m. Integrated Neuroscience**  
**Session: Mitochondrial Diseases in Neurology**

- 1:00 p.m. – 3:00 p.m. Invited Speaker Session
- 3:00 p.m. – 4:00 p.m. Poster Rounds
- 4:00 p.m. – 4:30 p.m. Data Blitz
- 4:30 p.m. – 5:00 p.m. Panel Discussion/Debate

# 2012 Scientific Sessions at a Glance

**2:00 p.m. – 6:30 p.m. Poster Session III**  
(with Poster Discussion Session)

**3:00 p.m. – 4:30 p.m. Scientific Sessions**

- S11 Multiple Sclerosis: Clinical Trials: Imaging Outcomes
- S12 Ataxia and Cerebellar Disease  
*Presentation of the Jon Stolk Award*
- S13 Disparities in and Risk Factors for Ischemic Stroke  
*Presentation of the Michael S. Pessin Prize*
- S14 Aging and Dementia: Diagnosis and Biomarkers
- S15 Muscular Dystrophy
- S16 Headache I
- S17 Neurologic Education
- S18 Sleep Disorders  
*Presentation of the Wayne A. Hening Award*  
*Presentation of the Sleep Science Award*
- S19 Ischemic Cerebrovascular Disease and Subarachnoid Hemorrhage
- S20 Multiple Sclerosis: Genetics  
*Presentation of the Bruce Schoenberg Award*

**5:15 p.m. – 6:15 p.m. Hot Topics Forum**

## Wednesday, April 25, 2012

**7:30 a.m. – 12:00 p.m. Poster Session IV**  
(with Poster Discussion Session)

**9:00 a.m. – 12:00 p.m. Contemporary Clinical Issues Plenary Session**

**2:00 p.m. – 3:45 p.m. Scientific Sessions**

- S21 Multiple Sclerosis: Imaging Advances
- S22 Pathophysiology and Diagnosis of Parkinson's Disease  
*Presentation of the Founders Award*
- S23 Intracerebral and Subarachnoid Hemorrhage
- S24 Aging and Dementia: Clinical Aspects and Epidemiology
- S25 Anterior Horn

- S26 Epilepsy: Molecular and Genetics  
*Presentation of the Dreifuss-Penry Award*
- S27 Genetics and Molecular Mechanisms
- S28 Child Neurology
- S29 Moving Toward Treatment  
*Presentation of the Norman Geschwind Prize*
- S30 Multiple Sclerosis: Clinical Interventions and Clinical Trials

**2:00 p.m. – 5:00 p.m. Controversies in Neuroscience Session**

**2:00 p.m. – 6:00 p.m. Integrated Neuroscience Session: Stem Cells**

- 2:00 p.m. – 4:00 p.m. Invited Speaker Session
- 4:00 p.m. – 5:00 p.m. Poster Rounds
- 5:00 p.m. – 5:30 p.m. Data Blitz
- 5:30 p.m. – 6:00 p.m. Panel Discussion/Debate

**2:00 p.m. – 7:00 p.m. Poster Session V**  
(with Poster Discussion Session)

**4:00 p.m. – 5:30 p.m. Scientific Sessions**

- S31 Multiple Sclerosis: Immunology: Mechanism of Action
- S32 Hyperkinetic Disorders: Essential Tremor, Tourette's Syndrome, and Huntington's Disease
- S33 Carotid Disease, Aneurysms, and Apnea
- S34 Aging and Dementia: Imaging
- S35 Autoimmune Myasthenia Gravis and Inflammatory Myopathy
- S36 Headache II  
*Presentation of the Harold Wolff-John Graham Award*
- S37 Infections I
- S38 Ethics  
*Presentation of the Mitchell B. Max Award*
- S39 Evaluating the Causes and Effects of Stroke
- S40 Multiple Sclerosis: Immunology: Biomarkers and Disease Mechanism

# 2012 Scientific Sessions at a Glance

6:30 p.m. – 7:30 p.m. **Highlights in the Field**

## Thursday, April 26, 2012

7:30 a.m. – 12:00 p.m. **Poster Session VI**  
(with Poster Discussion Session)

9:00 a.m. – 11:00 a.m. **Frontiers in Translational Neuroscience Plenary Session**

1:00 p.m. – 2:45 p.m. **Scientific Sessions**

- S41 Multiple Sclerosis: Clinical Trials: Safety
- S42 Epidemiology of Parkinson's Disease
- S43 Biology and Biomarkers of Cerebrovascular Disease
- S44 Genetics, Anatomy, and Behavior
- S45 Neuro-oncology
- S46 Epilepsy: Clinical
- S47 Critical Care/Emergency Neurology/Trauma
- S48 Neuro-ophthalmology
- S49 Neural Repair
- S50 Multiple Sclerosis: Imaging: Clinical Phenotype

1:00 p.m. – 5:00 p.m. **Integrated Neuroscience Session: RNA Metabolism in Neurodegeneration**

- 1:00 p.m. – 3:00 p.m. Invited Speaker Session
- 3:00 p.m. – 4:00 p.m. Poster Rounds
- 4:00 p.m. – 4:30 p.m. Data Blitz
- 4:30 p.m. – 5:00 p.m. Panel Discussion/Debate

2:00 p.m. – 6:30 p.m. **Poster Session VII**  
(with Poster Discussion Session)

3:00 p.m. – 4:30 p.m. **Scientific Sessions**

- S51 Multiple Sclerosis: Imaging: Cognition

S52 Parkinson's Disease: Non-Motor Symptoms  
*Presentation of the S. Weir Mitchell Award*

S53 Stroke Genetics, Stem Cells, and Cognition

S54 Aging and Dementia: Genetics

S55 Muscle Disorders

S56 Epilepsy: Therapy

S57 Infections II

S58 Clinical Neurophysiology

S59 History of Neurology

S60 Multiple Sclerosis: Biomarkers: Clinical Phenotype

5:00 p.m. – 6:00 p.m. **Highlights in the Field**

## Friday, April 27, 2012

8:00 a.m. – 12:00 p.m. **Integrated Neuroscience Session: Pediatric Movement Disorders**



- 8:00 a.m. – 10:00 a.m. Invited Speaker Session
- 10:00 a.m. – 11:00 a.m. Poster Rounds
- 11:00 a.m. – 11:30 a.m. Data Blitz
- 11:30 a.m. – 12:00 p.m. Panel Discussion/Debate

9:00 a.m. – 5:00 p.m. **Future of Neuroscience Conference: Neurotranslation: Neurologists and Neuroscientists Defining the Next Generation of CNS Therapies**

12:00 p.m. – 1:30 p.m. **Clinical Trials Forum**

5:15 p.m. – 6:15 p.m. **Scientific Program Highlights**

**Join the Annual Meeting Conversation!**

Connect with colleagues and get updates on what's going on at the 2012 AAN Annual Meeting in New Orleans at [www.Twitter.com](http://www.Twitter.com) (use hashtag #AANAM) and on the AAN Facebook Page!



## AAN Alliance Awards

### ■ Founders Award

*Sponsored by the American Academy of Neurology Alliance.*

**Recipient: Amer Ghavanini, MD, PhD / Toronto, ON, Canada**

Presentation: S22: Pathophysiology and Diagnosis of Parkinson's Disease

Date and Time: Wednesday, April 25, 2:00 p.m.

Title: Relationship Between the Pattern of Oscillations, Anatomical Location, and Clinical Response in Deep Brain Electrodes Targeted to the Subthalamic Nucleus in Parkinson's Disease

### ■ S. Weir Mitchell Award

*Sponsored by the American Academy of Neurology Alliance.*

**Recipient: Nandakumar Narayanan, MD, PhD / New Haven, CT**

Presentation: S52: Parkinson's Disease: Non-Motor Symptoms

Date and Time: Thursday, April 26, 3:00 p.m.

Title: Prefrontal Dopamine Influences Performance of a Fixed-Interval Timing Task Via D1 Receptors

## A. B. Baker Award for Lifetime Achievement in Neurologic Education

*Funded by an endowment created by matching funds from the A.B. Baker Family Trust and Novartis Pharmaceuticals.*

**Recipient: Shirley H. Wray, MD, PhD, FAAN / Boston, MA**

Presentation: 3EC.001 Education Colloquium

Date and Time: Monday, April 23, 9:00 a.m.

## AAN Foundation Clinical Research Training Fellowships

*Funded by the American Academy of Neurology and the AAN Foundation.*

**Recipients: Christopher D. Anderson, MD**

Massachusetts General Hospital

**An Hong Do, MD**

University of California Irvine

**Thalia S. Field, MD**

University of British Columbia

**Vikas Kotagal, MD**

University of Michigan

**Cornelii Luca, MD, PhD**

University of Miami, Miller School of Medicine

**Kiran Maskis, MD**

Children's Hospital Boston

**Nandakumar Narayanan, MD, PhD**

Yale Medical School

**Mwiza Ushe, MD**

Washington University School of Medicine, St. Louis

**Jeffrey Waugh, MD, PhD**

Children's Hospital Boston, Harvard University

**M. Brandon Westover, MD, PhD**

Harvard Medical School, Massachusetts General Hospital

## Susan S. Spencer Clinical Research Training Fellowship in Epilepsy

*Funded by the AAN Foundation, the American Epilepsy Society, and the Epilepsy Foundation.*

**Recipient: Anli Liu, MD**

Beth Israel Deaconess Medical Center, Harvard Medical School

## AAN Foundation/Alzheimer's Association Robert Katzman, MD Clinical Research Training Fellowship in Alzheimer's Research

*Funded by AAN Foundation and Alzheimer's Association*

**Recipient: Suzanne Schindler, MD, PhD**

Washington University, St. Louis

## AAN Foundation/MGFA Clinician Scientist Development Three-Year Award

*Cosponsored by the Myasthenia Gravis Foundation and AAN Foundation*

**Recipient: Qin Li Jiang, MD**

University of Illinois at Chicago & Jesse Brown VA Medical Center

## AHA/ASA/AAN Foundation Lawrence Brass MD Stroke Research Postdoctoral Fellowship

*Funded by AAN Foundation and the American Heart Association/American Stroke Association*

**Recipient: Adina Zeki Al Hazzouri, PhD**

UCSF

## AAN Foundation Practice Research Training Fellowship

*Funded by the American Academy of Neurology and the AAN Foundation.*

**Recipient: Holly Hinson, MD**

Oregon Health and Science University

## AAN Foundation/National MS Society Clinician Development Award

*Funded by the AAN Foundation and the National Multiple Sclerosis Society.*

**Recipient: Matthew Bellizzi, MD**

University of Rochester

## AAN Award for Creative Expression of Human Values in Neurology

*Sponsored by the Neurology Ethics, Law and Humanities Committee.*

**Recipient: J. Thomas Hutton, MD, PhD, FAAN /**

Fredericksburg, TX

Title: "The Man who Played Pinochle with Dogs"

## Dreifuss-Penry Epilepsy Award

*Sponsored by the American Academy of Neurology and endowed by members of the AAN Epilepsy Section; Abbott Laboratories, Inc.; Cephalon, Inc.; Cyberonics, Inc.; Elan Pharmaceuticals, Inc.; GlaxoSmithKline; Novartis Pharmaceuticals; Ortho-McNeil Neurologics; Pfizer Inc; Shire US, Inc; and UCB Pharma.*

**Recipient: Tobias Loddenkemper, MD / Boston, MA**

Presentation: S26: Epilepsy: Molecular and Genetics

Date and Time: Wednesday, April 25, 2:00 p.m.

## John Dystel Prize for Multiple Sclerosis Research

*Presented by the American Academy of Neurology and the National Multiple Sclerosis Society and made possible through a special contribution from the John Dystel Multiple Sclerosis Research Fund at the National Multiple Sclerosis Society.*

**Recipient:** Richard Ransohoff, MD / Cleveland, OH

Presentation: S01: Multiple Sclerosis: Clinical Trials: Clinical Outcomes

Date and Time: Tuesday, April 24, 1:00 p.m.

## Sheila Essey Award: An Award for ALS Research

*Presented by the American Academy of Neurology and The ALS Association and supported through the philanthropy of the Essey Family Fund and The ALS Association.*

**Recipient:** Christopher Shaw, MBChB, MD, FRACP / London, United Kingdom

Presentation: S05: Anterior Horn: Basic Science and Genetics

Date and Time: Tuesday, April 24, 1:00 p.m.

## American Academy of Neurology Foundation Chair's Award

*Sponsored by the AAN Foundation.*

**Recipient:** TBD

## American Academy of Neurology President's Award

*Sponsored by the American Academy of Neurology.*

**Recipient:** John Corboy, MD, FAAN / Aurora, CO

## Norman Geschwind Prize in Behavioral Neurology

*Sponsored by the American Academy of Neurology and the AAN Behavioral Neurology Section and endowed through Dr. Geschwind's family, friends, and colleagues; Pfizer Inc; and the Society for Behavioral and Cognitive Neurology.*

**Recipient:** Marco Catani, MD / London, United Kingdom

Presentation: S29: Moving Toward Treatment

Date and Time: Wednesday, April 25, 2:00 p.m.

## Mitchell B. Max Award for Neuropathic Pain

*Sponsored by the American Academy of Neurology and endowed by the United States Cancer Pain Relief Committee, the Mayday Fund, and friends of Dr. Mitchell Max.*

**Recipient:** Howard Fields, MD, PhD / Emeryville, CA

Presentation: S38: Ethics

Date and Time: Wednesday, April 25, 4:00 p.m.

## Jon Stolk Award in Movement Disorders for Young Investigators

*Sponsored by the American Academy of Neurology and endowed by Kyowa Pharmaceutical, Inc., Lineberry Research, Quintiles, and Dr. Dennis Gillings.*

**Recipient:** Pedro Gonzalez-Alegre, MD, PhD / Iowa City, IA

Presentation: S12: Ataxia and Cerebellar Disease

Date and Time: Tuesday, April 24, 3:00 p.m.

## Association of Indian Neurologists in America (AINA) Lifetime Achievement Award

*Endowed by the Association of Indian Neurologists in America (AINA).*

**Recipient:** Thomas R. Swift, MD, FAAN / Augusta, GA

## International Scholarship Award

*Sponsored by the American Academy of Neurology International Subcommittee.*

**Recipients:** Michael Fawale, MD

Edoardo Malfatti, MD

Walter Struhal, MD

Mamta Singh, MBBS, MD, DM

Timo Siepmann, MD

Oksana Trotsenko, MD

Karen Takazaki, MSc

Taofiki Sunmonu, MBBS, FMCP

Danyella Dogini, PhD

Jaira Vasconcellos, MSc, PhD

Felipe Von Glehn Silva, MD, MSc, PhD

Cynthia Bonilha da Silva, MD

Katja Thomas

## Lawrence C. McHenry Award: An Award for the History of Neurology

*Sponsored by the American Academy of Neurology.*

Not given

## Medical Student Essay Awards

*Sponsored by the American Academy of Neurology.*

### ■ Extended Neuroscience Award

**Recipient:** Matthew Elrick / Ann Arbor, MI

Presentation: Poster Session III

Date and Time: Tuesday, April 24, 2:00 p.m.

Title: Autophagy Promotes Niemann-Pick Type C Disease Pathogenesis by Enhancing Lipid Storage and Lysosomal Dysfunction

### ■ G. Milton Shy Award in Clinical Neurology

**Recipient:** Tenneille Loo / Toronto, ON, Canada

Presentation: Poster Session III

Date and Time: Tuesday, April 24, 2:00 p.m.

Title: The Pharmacogenomics of Vincristine-Induced Neurotoxicity in Pediatric Cancer Patients

### ■ Roland P. Mackay Award in Historical Aspects

**Recipient:** Jessica Shields / New Orleans, LA

Presentation: Poster Session III

Date and Time: Tuesday, April 24, 2:00 p.m.

Title: Native Americans in Neurology: Cultural and Ethnobotanical Lessons

## ■ Saul R. Korey Award in Experimental Neurology

**Recipient:** Mark Ziats / Houston, TX

Presentation: Poster Session III

Date and Time: Tuesday, April 24, 2:00 p.m.

Title: Long Non-coding RNAs Are Dysregulated in Autism Brain

## Minority Scholars Program

*Sponsored by a grant from Allergan Foundation.*

**Recipients:** Jose Morales, MS II

University of Utah School of Medicine

**Monica M. Diaz, MS II**

State University of New York Downstate

College of Medicine

**JaMís Monét Jackson, MS, MS II**

Indiana University School of Medicine

**Roxana Y. Cortes, MS II**

UC Davis School of Medicine

**Adrian M. Burgos, MS II**

Keck School of Medicine of USC

**Joaquin De Rojas**

Perelman School of Medicine,

University of Pennsylvania

**Gabriel Moreno, MS III**

Wayne State University

## Movement Disorders Research Award

*Sponsored by the American Academy of Neurology, the Parkinson's Disease Foundation, and the AAN Movement Disorders Section and endowed by the Parkinson's Disease Foundation.*

**Recipient:** Caroline Tanner, MD, PhD / Sunnyvale, CA

Presentation: S02: Treatment of Parkinson's Disease

Date and Time: Tuesday, April 24, 1:00 p.m.

## Neuroscience Research Prize

*Sponsored by the American Academy of Neurology, American Academy of Neurology Foundation and the Child Neurology Society.*

**Recipients:** Sean Oh / Westbury, NY

**John Solder / Westport, CT**

**Christie Wang / Roslyn, NY**

## Child Neurology Neuroscience Research Prize

*Sponsored by the American Academy of Neurology, American Academy of Neurology Foundation and the Child Neurology Society.*

**Recipients:** Vincent Shieh / New York, NY

Note: The recipient will attend the Child Neurology

Society Annual Meeting, October 31 to November 3, 2012,

in Huntington Beach, CA

## Palatucci Advocacy Leadership Forum Advocate of the Year

*Sponsored by the AAN Government Relations Committee.*

**Recipient:** Constantine Moschonas, MD/ Scottsdale, AZ

## Michael S. Pessin Stroke Leadership Prize

*Sponsored by the American Academy of Neurology and endowed by Dr. Pessin's family, friends, and colleagues.*

**Recipient:** Natalia Rost, MD / Boston, MA

Presentation: S13: Disparities in and Risk Factors for Ischemic Stroke

Date and Time: Tuesday, April 24, 3:00 p.m.

## Potamkin Prize for Research in Pick's, Alzheimer's, and Related Diseases

*Sponsored by the American Academy of Neurology, the AAN Foundation, and funded through the philanthropy of the Potamkin Family.*

**Recipients:** Takeshi Iwatsubo, MD, PhD / Tokyo, Japan

Presentation: S04: Aging and Dementia: Therapeutic Interventions

Date and Time: Tuesday, April 24, 1:00 p.m.

## Neuroendocrine Research Award

*Sponsored by the American Academy of Neurology and supported by friends of Dr. Andrew Herzog.*

**Recipient:** Alison Pack, MD / New York, NY

Presentation: Neuroendocrinology Section Meeting

Date and Time: Wednesday, April 25, 5:00 p.m.

## Research Award in Geriatric Neurology

*Sponsored by the American Academy of Neurology and the AAN Geriatric Neurology Section.*

**Recipient:** Gil Rabinovici, MD / San Francisco, CA

Presentation: Geriatric Neurology Section Meeting

Date and Time: Wednesday, April 25, 5:30 p.m.

## Bruce S. Schoenberg International Award in Neuroepidemiology

*Endowed by GlaxoSmithKline, Inc.*

**Recipient:** Amir Hadi Maghzi, MD / Isfahan, Iran

Presentation: S20: Multiple Sclerosis: Genetics

Date and Time: Tuesday, April 24, 3:00 p.m.

Title: The Changing Epidemiology of Multiple Sclerosis in Isfahan, Iran

## Sleep Science Award

*Sponsored by the American Academy of Neurology and the AAN Sleep Section and endowed by Cephalon, Inc.*

**Recipient:** Beth Malow, MD, MS / Nashville, TN

Presentation: S18: Sleep Disorders

Date and Time: Tuesday, April 24, 3:15 p.m.

## H. Richard Tyler Award

*Sponsored by the American Academy of Neurology and the AAN Archive Committee.*

**Recipient:** Douglas J. Lanska, MD, FAAN / Tomah, WI

# 2012 Award Recipients

## **Kenneth M. Viste, Jr., MD, Patient Advocate of the Year Award**

*Endowed by gifts from Dr. Viste's colleagues, friends, and patients.*

**Recipient:** John Booss, MD, FAAN / West Haven, CT  
Presentation: PALF Reception  
Date and Time: Monday, April 23, 5:30 p.m. – 7:30 p.m.

## **Harold Wolff-John Graham: An Award for Headache/Facial Pain Research**

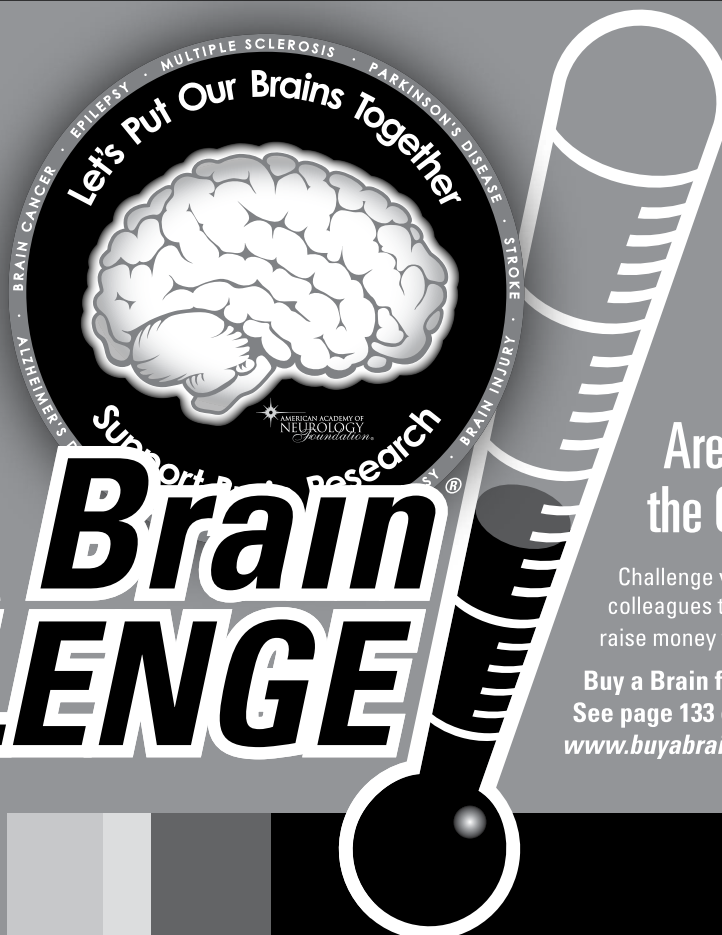
*Sponsored by the American Academy of Neurology and endowed by Endo Pharmaceuticals.*

**Recipient:** Simon Akerman, MD / San Francisco, CA  
Presentation: S36: Headache II  
Wednesday, April 25, 4:00 p.m.

## **Wayne A. Hening Sleep Medicine Investigator Award**

*Sponsored by the American Academy of Neurology and endowed by UCB, Inc., Lilly USA, Elite Home Medical & Respiratory, Inc., Raleigh Neurology Associates, and friends of Dr. Wayne A. Hening.*

**Recipient:** Jeffery Ellenbogen, MD, MMSc / Boston, MA  
Presentation: S18: Sleep Disorders  
Tuesday, April 24, 3:00 p.m.



# **Buy A Brain CHALLENGE**

## **Are You Up for the Challenge?**

Challenge your family, friends, and colleagues to join you in helping us raise money for neurologic research.

**Buy a Brain for \$5 today.  
See page 133 or visit  
[www.buyabrain.org](http://www.buyabrain.org).**

**4.24.2012**

**10:05 a.m.**

Saturday, April 21, 2012

**Registration opens at 6:00 a.m.**

## A.M. Half-Day Courses

8:00 a.m.–12:00 p.m.

**1AC.001** Resident Basic Science I: Neuropathology

**1AC.002** Deep Brain Stimulation Management

**1AC.003** Diagnostic Dilemmas in Multiple Sclerosis

**1AC.004** Neuromuscular Junction Disorders

## Education Directors Program

8:00 a.m.–4:00 p.m.

**1EP.001** Clerkship and Program Directors Conference

## Full-Day Course

8:00 a.m.–4:00 p.m.

**1FC.001** The Practice of Neurology: Issues in Coding and Reimbursement

## Brain Health Fair

9:30 a.m.–3:30 p.m.

New Orleans Ernest N. Morial Convention Center

*Public event for patients, families and caregivers.*



## Colloquium

12:00 p.m.–4:00 p.m.

**1EC.001** BRAINS Colloquium: BRAINS, Business, and All That Jazz

## P.M. Half-Day Courses

2:00 p.m.–6:00 p.m.

**SIF TRACK PN 1PC.001** Peripheral Neuropathy Therapy

**1PC.002** Resident Basic Science II: Functional Neuroanatomy

## Kick-Off Programs

4:00 p.m.–6:00 p.m.

**1KP.001** The Neurohospitalist Model: Why, How, and Implications Thereof

**1KP.002** Top 10 Neuro-ophthalmic Diagnoses You Can't Afford to Miss

**1KP.003** Multiple Sclerosis Essentials

**1KP.004** Recognition and Management of the Many Types of Status Epilepticus

**1KP.005** Surviving Stroke Call: A Guide for Nonvascular Neurologists

**1KP.006** Diagnostic Testing in Neuromuscular Disease

**1KP.007** Borderlands of Neurology and Internal Medicine

**1KP.008** Assessment of Rapidly Progressive Dementias and Related Neurologic Conditions

Sunday, April 22, 2012

## Neuro Flashes

6:30 a.m.–8:00 a.m.

**2NF.001** Neuro Flash: Sleep Medicine

**2NF.002** Neuro Flash: Acute Stroke Management

**2NF.003** Neuro Flash: MRI and Multiple Sclerosis

## Morning Report

6:30 a.m.–8:00 a.m.

**2MR.001** Morning Report: Memory Disorders

## Seminars

6:30 a.m.–8:30 a.m.

**2SM.001** Introduction to Genetics

**2SM.002** Starting Your Career: The Early Years

## Extended Seminars

6:30 a.m.–9:30 a.m.

**2ES.001** Clinical E-Pearls

**2ES.002** EEG in Children: Developmental Maturation, Variants, Epilepsy Syndromes, and Identification of Surgical Candidates

## Integrated Neuroscience Session

8:00 a.m.–12:00 p.m.

**SIF TRACK PN** Peripheral Nerve Regeneration

## Colloquium

9:00 a.m.–12:00 p.m.

**2EC.001** Patient Safety Colloquium

## A.M. Half-Day Courses

9:00 a.m.–1:00 p.m.

**2AC.001** Tips, Tools, and Tricks to Diagnose and Treat Primary Headache Disorders

**2AC.002** Child Neurology I

**2AC.003** Resident Basic Science III: Neuropharmacology

**2AC.004** Non-Alzheimer's Dementia

**2AC.005** Sports Neurology

**2AC.006** Emergency Room Neuro-ophthalmology

**SIF CV 2AC.007** What's in a Stroke Center: Members, Services, Organization and Roles

## Physician Leadership Program *New Session Added*

9:00 a.m.–5:00 p.m.



**2LP.001** Physician Leadership Program: Leading Others

## Seminars

9:30 a.m.–11:30 a.m.

**2SM.003** Practice Survival for Neurologists: Business Strategies for Success

**2SM.004** Clinical Grant Writing

## Full-Day Courses

10:00 a.m.–6:00 p.m.

**2FC.001** Clinical Epilepsy

**2FC.002** Neurologic Intensive Care

**2FC.003** Movement Disorders

**2FC.004** Therapy in Neurology

**2FC.005** Infections of the Nervous System

## Skills Workshop

10:00 a.m.–6:00 p.m.

**2SW.001** EMG Skills Workshop: Basic

## Colloquium

1:00 p.m.–4:00 p.m.

**2EC.002** Practice Colloquium: Prepare Your Practice for the Future: What Will the Practice of Neurology Look Like in 2017?

## Colloquium

2:00 p.m.–6:00 p.m.

**2EC.003** Clinical Research Colloquium

## Integrated Neuroscience Session

2:00 p.m.–6:00 p.m.

**SIF CV** The Essential Role of Neurologists in Treating and Preventing Stroke

## P.M. Half-Day Courses

2:00 p.m.–6:00 p.m.

**2PC.001** Advances in Chronic Migraine

**2PC.002** Child Neurology II

**2PC.003** Autoimmune Neurology

**2PC.004** Spine Neuroimaging: Clinical-Radiologic Correlation

**SIF A/D 2PC.005** White Matter Disease in Cognitive Aging

**SIF PN 2PC.006** Inherited Neuropathies: From Bench to Bedside

## Celebration for Research

6:00 p.m.–11:00 p.m.

**Neuro Bowl®:** 6:00 p.m.–8:00 p.m.

**Main Stage: Mardi Gras Extravaganza Featuring Rockin' Dopsie Jr. and the Zydeco Twisters:** 8:30 p.m.–11:00 p.m.

**Neuro Film Festival®:** 8:30 p.m.–11:00 p.m.

## Monday, April 23, 2012

### Neuro Flashes

6:30 a.m.–8:00 a.m.

**3NF.001** Neuro Flash: Approach to Acute CNS Infections

**3NF.002** Neuro Flash: Opioid Therapy for Headache and Neuropathic Pain Syndromes: Consensus and Controversies

### Morning Reports

6:30 a.m.–8:00 a.m.

**3MR.001** Morning Report: Multiple Sclerosis

### Seminars

6:30 a.m.–8:30 a.m.

**3SM.001** Mitochondrial Disorders in Neurology

**3SM.002** Career Development for Clinician Educators

**3SM.003** Global Health Challenges: Neurology in Developing Countries

### Extended Seminars

6:30 a.m.–9:30 a.m.

**3ES.001** Making Sure Your Electronic Health Record System Is a Success

**3ES.002** Eye Movement Disorders: A Systematic Approach to the Evaluation of Diplopia

### State Society Leadership Roundtable

7:00 a.m.–9:30 a.m.

Leadership representatives of state neurological societies are invited to discuss challenges, strategies, and practices related to state society creation and maintenance. Discussion will be facilitated by Academy staff. Participants will learn from the experiences of established societies and be introduced to the resources available from the Academy.

## AAN Business Meeting

8:00 a.m.–8:30 a.m.

All members are invited to attend the meeting to take part in Academy business.

## Integrated Neuroscience Sessions

8:00 a.m.–12:00 p.m.

Biomarkers in Neurological Diagnosis and Therapeutic Monitoring

 **A/D** Non-memory Systems in the Brain

## Colloquium

8:30 a.m.–12:00 p.m.

**3EC.001** Education Colloquium: “Simulation and Neurology Education”

## A.M. Half-Day Courses

9:00 a.m.–1:00 p.m.


**3AC.001** Stroke in Children and Neonates

**3AC.002** Clinical Practice Survival Guide

**3AC.003** Multiple Sclerosis Overview I: Basic Science

**3AC.004** Sleep for the Practicing Neurologist

**3AC.005** Neuro-oncology: Primary Brain Tumors

 **CV** **3AC.006** Vascular Contributions to Cognitive Impairment and Dementia: Diagnosis, Prevention, and Treatments

 **EP** **3AC.007** Emerging Techniques and Directions in Epilepsy

 **MD** **3AC.008** Impulse Control Disorders and Reward Mechanisms in Movement Disorders

## Physician Leadership Program

9:00 a.m.–5:00 p.m.



**3LP.001** Leading in a Complex World—The Power of Authenticity

## Seminars

9:30 a.m.–11:30 a.m.

**3SM.004** Spine and Spinal Cord Emergencies

**3SM.005** Archival Neurologic Films

## Full-Day Courses

10:00 a.m.–6:00 p.m.

**3FC.001** Genetics in Neurology

**3FC.002** Cerebrovascular Disease

**3FC.003** Neuro-ophthalmology

**3FC.004** Peripheral Neuropathy

**3FC.005** Neurology Update I

## Skills Workshop

10:00 a.m.–6:00 p.m.

**3SW.001** Neurophysiologic Intraoperative Monitoring

## Extended Seminars

11:00 a.m.–2:00 p.m.

**3ES.003** Contemporary Issues in Neuro-Palliative Care

**3ES.004** Improving Accuracy of Dementia Diagnosis: Case Studies with Both Imaging and Neuropathology

## Colloquium

12:00 p.m.–2:00 p.m.

**3EC.002** International Colloquium

## NEW: Hot Topics in Education: Institute of Medicine Report on Epilepsy

12:30 p.m.–1:30 p.m.

## Best Care Expo: Eight Paths to Practice Excellence

1:00 p.m.–3:00 p.m.

## AAN/ABPN MOC Informational Session

1:30 p.m.–3:00 p.m.

### Free Session Answers Questions about ABPN Maintenance of Certification Requirements


The AAN and American Board of Psychiatry and Neurology (ABPN) are collaborating to host an informational session to help attendees better understand the ABPN requirements for Maintenance of Certification (MOC). If you are confused or have questions about how to meet your MOC requirements, or would like to learn about some of the resources the AAN is providing to help you address these requirements, this session is for you.

## The \$44,000 Question: Are You Ready to Make the Most Out of Your EHR?

2:30 p.m.–5:30 p.m.

## Integrated Neuroscience Session

2:00 p.m.–6:00 p.m.

 **EP** Epilepsy and Channelopathies

 **MD** Plasticity in Basal Ganglia Therapy

## P.M. Half-Day Courses

2:00 p.m.–6:00 p.m.

**3PC.001** Bedside Evidence-Based Medicine: How to Deconstruct Articles in Order to Take Care of Patients

**3PC.002** Multiple Sclerosis Overview II: Clinical Advances



**3PC.003** *Continuum*<sup>®</sup> Test Your Knowledge: A Multiple-Choice Question Review

**3PC.004** Neurologic Complications of Systemic Cancer

**3PC.005** Neuropsychiatry

**3PC.006** Evaluation and Management of Autonomic Disorders

## Poster Session I (with Discussion Session)

2:00 p.m.–6:30 p.m.

## ABPN Resident Informational Session

3:00 p.m.–4:00 p.m.

## Colloquium

3:00 p.m.–6:00 p.m.

**3EC.003** Education Research Colloquium

**3EC.004** Research Coordinator Colloquium

## Exhibit Hall Opening Reception

4:30 p.m.–7:30 p.m.

**New Hours!**

## Consortium of Neurology Residents & Fellows (CNRF) Meeting

4:00 p.m.–6:00 p.m.

## Student Interest Group in Neurology (SIGN) Meeting

4:30 p.m.–6:30 p.m.

## Residents and Fellows Career Forum and Reception

6:30 p.m.–9:00 p.m.

## Tuesday, April 24, 2011

## Run/Walk for Brain Research

6:30 a.m.–8:30 a.m.

## Seminars

6:30 a.m.–8:30 a.m.

**4SM.001** Case Studies in Neuro-oncology

**4SM.002** E/M: Minimize Mistakes, Maximize Reimbursement

**4SM.003** The Dystonias: Diagnosis, Treatment, and Update on Causes

**4SM.004** Mild Cognitive Impairment: Implications for Clinicians

**4SM.005** Nystagmus: An Organized Approach

## Poster Session II (with Discussion Session)

7:30 a.m.–12:00 p.m.

## Palatucci Advocacy Action Planning Roundtable

7:30 a.m.–9:30 a.m.

Over breakfast, Palatucci Advocacy Leadership Forum graduates can discuss the challenges and successes they have encountered while implementing their action plans. This is the only opportunity each year for graduates to communicate face-to-face with their peers and learn of new resources. All advocates are encouraged to attend.

## Presidential Plenary Session

9:00 a.m.–12:00 p.m.



**Moderator: Lisa M. DeAngelis, MD, FAAN, Chair, Science Committee**

Features the AAN's premier lecture awards for clinically relevant research and a presentation by a leading lecturer. Top researchers speak on some of the most significant findings in neurology in 2012.

## Presidential Lecture

### Epigenetics: A New Science of Brain and Behavior

Mark F. Mehler, MD, FAAN

*Albert Einstein College of Medicine, Bronx, NY*

### George C. Cotzias Lecture

*Endowed by Roche Pharmaceuticals*

### Neurology Collides with the RNA World: Wide-ranging Impact, From Intellectual Disability to Motor Neuron Disease

Robert B. Darnell, MD, PhD

*Rockefeller University, New York, NY*

### Sidney Carter Award in Child Neurology Lecture

*Endowed by an anonymous donor*

### Following the Red Thread

Rose Mary N. Boustany, MD

*Duke University, Durham, NC*

*American University of Beirut, Lebanon*

### Robert Wartenberg Lecture

### Stroke Prevention: An Unfinished Story with New Perspectives

Ralph L. Sacco, MD, MS, FAHA, FAAN

*University of Miami, Miami, FL*

## Colloquium

12:00 p.m.–2:00 p.m.

**4EC.001** NIH and the Practice of Neurology: What's New? What's Next?

## Exhibit Hall

12:00 p.m.–5:00 p.m.

New Hours!

## Scientific Sessions

1:00 p.m.–2:45 p.m.

- S01** Multiple Sclerosis: Clinical Trials: Clinical Outcomes  
*Presentation of the John Dystel Prize for Multiple Sclerosis Research*
- S02** Treatment of Parkinson's Disease  
*Presentation of the Movement Disorders Research Award*
- S03** Reperfusion Therapy for Acute Ischemic Stroke
- S04** Aging and Dementia: Therapeutic Interventions  
*Presentation of the Potamkin Prize for Research in Picks, Alzheimer's, and Related Diseases*
- S05** Anterior Horn: Basic Science and Genetics  
*Presentation of the Sheila Essey Award: An Award for ALS Research*
- S06** Epilepsy: Epidemiology
- S07** Peripheral Neuropathy Advances
- S08** Neurologic Manifestations of Systemic Disease
- S09** Interventional Neurology
- S10** Multiple Sclerosis: CCSVI and Other Clinical Outcomes

## Integrated Neuroscience Session

1:00 p.m.–5:00 p.m.

Mitochondrial Diseases in Neurology

## P.M. Half-Day Courses

1:00 p.m.–5:00 p.m.

- 4PC.001** Pain Management Basics: A Primer for Neurologists
- 4PC.002** History of Neurology: The Origins of the Neurological Examination
- 4PC.003** Cumulative Sports Concussion and Risk of Dementia
- 4PC.004** Practical Legal Issues for Neurologists
- SIF** **EP** **4PC.005** Current Controversies in Epilepsy: Brain Injury and Cognitive Costs
- SIF** **MD** **4PC.006** Myoclonus

## Neurology Skills Pavilion

1:00 p.m.–5:00 p.m.

**4NP.001** Neurology Skills Pavilion: Neuromuscular Bedside Rounds

## Poster Session III (with Discussion Session)

2:00 p.m.–6:30 p.m.

## Scientific Sessions

3:00 p.m.–4:30 p.m.

- S11** Multiple Sclerosis: Clinical Trials: Imaging Outcomes
- S12** Ataxia and Cerebellar Disease  
*Presentation of the Jon Stolk Award in Movement Disorders for Young Investigators*
- S13** Disparities in and Risk Factors for Ischemic Stroke  
*Presentation of the Michael S. Pessin Stroke Leadership Prize*
- S14** Aging and Dementia: Diagnosis and Biomarkers
- S15** Muscular Dystrophy
- S16** Headache I
- S17** Neurologic Education
- S18** Sleep Disorders  
*Presentation of the Wayne A. Hening Sleep Medicine Investigator Award*  
*Presentation of the Sleep Science Award*
- S19** Ischemic Cerebrovascular Disease and Subarachnoid Hemorrhage
- S20** Multiple Sclerosis: Genetics  
*Presentation of the Bruce Schoenberg International Award in Neuroepidemiology*

## Hot Topics Forum

5:15 p.m.–6:15 p.m.



**Moderator: Jose Merino, MD, M Phil**  
**Member, Science Committee**

Members of the AAN Science Committee and AAN Scientific Program Subcommittee will note important and interesting abstracts presented at subspecialty meetings leading up to the

Annual Meeting that are not on the program but should be heard by a wide audience at the Annual Meeting.

### **Sex Differences in the Bioenergetic Aging of the Brain: Implications for Alzheimer's Disease Risk**

Roberta Diaz Brinton, PhD, University of Southern California

### **Searching for Genetic Influences on Brain Structure**

Jason Stein, PhD, University of California Los Angeles

### **Transynaptic Propagation of Tau Pathology: Neuroanatomical Considerations, Mechanistic Insight, and Clinical Implications**

Karen Duff, PhD, Columbia University

### **CSF as Growth Factors**

Christopher Walsh, MD, PhD, Childrens Hospital Boston

## Corporate Therapeutic Updates

7:00 p.m.–10:00 p.m.

Industry-sponsored, non-CME programs will be offered and are open to attendees at no charge. They will provide an opportunity for pharmaceutical companies, device companies, or other neurologic-related organizations to share information regarding their current therapies and projects in the pipeline in accordance with standards set for industry by the FDA.

## Wednesday, April 25, 2012

### Seminars

6:30 a.m.–8:30 a.m.

**5SM.001** Neurotoxicology

**5SM.002** Case Studies: Clinical Ethics, Professionalism, and Evidence-based Care of Patients with Severe Life-limiting Neurologic Disease

**5SM.003** Psychogenic Movement Disorders

**5SM.004** Brain Computer Interfaces: Frontiers in Neurology and Neuroscience

**5SM.005** The Neurology of Social Behavior

**5SM.006** Small Fiber Neuropathies: Sensory, Autonomic, or Both

**5SM.007** Editor's Seminar: Tips for Writing and Reviewing in *Neurology*<sup>®</sup>

### Poster Session IV (with Discussion Session)

7:30 a.m.–12:00 p.m.

## Education Program Evaluation Forms— Now Online Only!

In an effort to be conscious of both the environment and your time, all 2012 Annual Meeting Education Program evaluation forms will be handled electronically only—online and at your convenience. Simply log on to *AAN.com* after you've attended your applicable course or program to complete the form and receive your CME.

## Contemporary Clinical Issues Plenary Session

9:00 a.m.–12:00 p.m.

**Moderator: Lisa M. DeAngelis, MD, FAAN**  
**Chair, Science Committee**

Highlights issues most critical to practicing neurologists, including abstracts related to new therapeutic developments, clinical applications of basic and translational research, and innovative technical developments. In addition to the Contemporary Clinical Issues discussion, a case study format addresses topics of interest. Commentary and discussion follow each presentation.

### **MR Spectroscopy Markers of Disease Progression in Multiple Sclerosis: A Clinical Validation Study**

Sara Lufriu, MD, University of California San Francisco  
Discussant: Douglas Arnold, MD, Montreal Neurological Institute, McGill University

### **Analysis of the Behavioral Features Conferred by the Intermediate Allele for Huntington Disease in the Prospective Huntington at Risk Observational Study (PHAROS)**

Annie Killoran, MD, MSc, University of Rochester  
Discussant: Jeffery Vance, MD, PhD, University of Miami

### **Clinical Features, Treatment, and Outcome of 500 Patients with Anti-NMDA Receptor Encephalitis**

Maarten Titulaer, MD, PhD, University of Pennsylvania  
Discussant: Angela Vincent, MD, PhD, John Radcliffe Hospital

### **Why Isn't Alice in Wonderland and How Can We Help Her Get There? Modifiable Barriers to Enrolment in Neurology Research Studies**

Richard Bedlack, MD, PhD, FAAN, Duke University Medical Center

### **Memory Consolidation in Sleep**

David Foster, MD, Johns Hopkins University

### **Image-Guided Patient Selection for Acute Stroke Therapy**

Maarten Lansberg, MD, PhD, Stanford University

## American Academy of Neurology and American Academy of Neurology Foundation Awards Luncheon

12:00 p.m.–1:30 p.m.

### Exhibit Hall

12:00 p.m.–5:00 p.m.

**New Hours!**

### Colloquium

2:00 p.m.–3:30 p.m.

**5EC.001** Ethics Colloquium

## Scientific Sessions

2:00 p.m.–3:45 p.m.

- S21** Multiple Sclerosis: Imaging Advances
- S22** Pathophysiology and Diagnosis of Parkinson's Disease  
*Presentation of the Founders Award*
- S23** Intracerebral and Subarachnoid Hemorrhage
- S24** Aging and Dementia: Clinical Aspects and Epidemiology
- S25** Anterior Horn
- S26** Epilepsy: Molecular and Genetics  
*Presentation of the Dreifuss-Perry Epilepsy Award*
- S27** Genetics and Molecular Mechanisms
- S28** Child Neurology
- S29** Moving Toward Treatment  
*Presentation of the Norman Geschwind Prize in Behavioral Neurology*
- S30** Multiple Sclerosis: Clinical Interventions and Clinical Trials

## NEW: Controversies in Neuroscience Session

2:00 p.m.–5:00 p.m.

## Integrated Neuroscience Session

2:00 p.m.–6:00 p.m.

Stem Cells

## P.M. Skills Workshop

2:00 p.m.–6:00 p.m.

**5PW.001** Acute Stroke Alert Skills Workshop

## P.M. Half-Day Courses

2:00 p.m.–6:00 p.m.

- 5PC.001** Myelopathies
- 5PC.002** Neurology Telemedicine Systems
- 5PC.003** Women's Neurologic Issues in Pregnancy
- 5PC.004** Parkinson's Disease and Movement Disorders Update

## Neurology Skills Pavilion

2:00 p.m.–6:00 p.m.

**5NP.001** Neurology Skills Pavilion: Neuro-ophthalmology and Neurovestibular Exam Lab

## Poster Session V (with Discussion Session)

2:00 p.m.–7:00 p.m.

## Scientific Sessions

4:00 p.m.–5:30 p.m.

- S31** Multiple Sclerosis: Immunology: Mechanism of Action
- S32** Hyperkinetic Disorders: Essential Tremor, Tourette's Syndrome, and Huntington's Disease
- S33** Carotid Disease, Aneurysms, and Apnea
- S34** Aging and Dementia: Imaging
- S35** Autoimmune Myasthenia Gravis and Inflammatory Myopathy
- S36** Headache II  
*Presentation of the Harold Wolff-John Graham: An Award for Headache/Facial Pain Research*
- S37** Infections I
- S38** Ethics  
*Presentation of the Mitchell B. Max Award for Neuropathic Pain*
- S39** Evaluating the Causes and Effects of Stroke
- S40** Multiple Sclerosis: Immunology: Biomarkers and Disease Mechanism

## Emerging Science Platform Session

5:45 p.m.–6:45 p.m.

## Current Practice Issues in Neurology

5:30 p.m.–7:00 p.m.

Attend the *Current Practice Issues in Neurology* session "Development of Guidelines and Policies by Private Insurers: A Practical Dialogue with Medical Directors" for an opportunity to hear directly from WellPoint and other insurers about their processes for developing policy as well as insight into how coverage decisions are made based on medical necessity. Gather insider information about how claims are paid—or why they are denied—and collect useful tips for reducing hassles with insurers. Participate in two-way conversations with the medical directors by asking questions and providing direct feedback during this free 90-minute event.

## Highlights in the Field Sessions

6:30 p.m.–7:30 p.m.

Get essential updates covering the past year in your subspecialty or topic of interest. Sections will provide overviews in their areas, featuring scientific and educational abstracts, journal articles, subspecialty society updates, tips, resources, and more.

Thursday, April 26, 2012

## Neuro Flashes

6:30 a.m.–8:00 a.m.

**6NF.001** Neuro Flash: Epilepsy

**6NF.002** Neuro Flash: Thunderclap Headache: The Big, the Bad and the Ugly

## Seminars

6:30 a.m.–8:30 a.m.

**6SM.001** Hallucinations in Parkinson's Disease

**6SM.002** What Neurologists Really Need to Know About Normal Pressure Hydrocephalus

**6SM.003** Attention Deficit Hyperactivity Disorder Across the Lifespan

## Poster Session VI (with Discussion Session)

7:30 a.m.–12:00 p.m.

## Frontiers in Translational Neuroscience Plenary Session

9:00 a.m. – 11:00 a.m.



**Moderator: Natalia Sana Rost, MD**  
Member, Science Committee

This session focuses on translational research related to clinical issues of importance. Four physician scientists outline their recent research findings, along with the clinical implications.

## Exercise and Parkinson's Disease: Studies with Animal Models

Michael J. Zigmond, PhD  
*University of Pittsburgh, Pittsburgh, PA*

## Translational Therapeutics Development at NIH

Christopher P. Austin, MD  
*National Institutes of Health, Rockville, MD*

## Translational Approaches with Signal Transduction Inhibitors in Glioblastoma: Lessons Learned from Bench to Bedside and Back Again

Timothy F. Cloughesy, MD  
*University of California, Los Angeles, CA*

## Molecular and Functional Imaging Detection of Preclinical Alzheimer's Disease

Reisa A. Sperling, MD  
*Harvard University, Boston, MA*

## Skills Workshop

11:30 a.m.–7:00 p.m.

**6SW.001** Advanced Techniques in EMG and Neuromuscular Disease

## Exhibit Hall

11:00 a.m.–3:00 p.m.

**New Hours!**

## Scientific Sessions

1:00 p.m.–2:45 p.m.

**S41** Multiple Sclerosis: Clinical Trials: Safety

**S42** Epidemiology of Parkinson's Disease

**S43** Biology and Biomarkers of Cerebrovascular Disease

**S44** Genetics, Anatomy, and Behavior

**S45** Neuro-oncology

**S46** Epilepsy: Clinical

**S47** Critical Care/Emergency Neurology/Trauma

**S48** Neuro-ophthalmology

**S49** Neural Repair

**S50** Multiple Sclerosis: Imaging: Clinical Phenotype

## Integrated Neuroscience Session

1:00 p.m.–5:00 p.m.

RNA Metabolism in Neurodegeneration

## P.M. Half-Day Courses

1:00 p.m.–5:00 p.m.

**6PC.001** Hot Topics in Headaches and Related Disorders

**6PC.002** Clinical EMG I

**6PC.003** Neurologic Complications of Medical Disease

**6PC.004** Update on Endovascular Treatment of Cerebrovascular Diseases

**SIF** **CN** **6PC.005** Rett Syndrome

## Neurology Skills Pavilion

1:00 p.m.–5:00 p.m.

**6NP.001** Epilepsy Skills Pavilion

## Poster Session VII (with Discussion Session)

2:00 p.m.–6:30 p.m.

## Scientific Sessions

**3:00 p.m.–4:30 p.m.**

- S51** Multiple Sclerosis: Imaging; Cognition
- S52** Parkinson's Disease: Non-Motor Symptoms  
*Presentation of the S. Weir Mitchell Award*
- S53** Stroke Genetics, Stem Cells, and Cognition
- S54** Aging and Dementia: Genetics
- S55** Muscle Disorders
- S56** Epilepsy: Therapy
- S57** Infections II
- S58** Clinical Neurophysiology
- S59** History of Neurology
- S60** Multiple Sclerosis: Biomarkers: Clinical Phenotype

## Highlights in the Field Sessions

**5:00 p.m.–6:00 p.m.**

Get essential updates covering the past year in your subspecialty or topic of interest. Sections will provide overviews in their areas, featuring scientific and educational abstracts, journal articles, subspecialty society updates, tips, resources, and more.

## Case Studies Programs

**6:00 p.m.–9:00 p.m.**

- 6CS.001** Case Studies: Neuroimaging
- 6CS.002** Case Studies: Multiple Sclerosis
- 6CS.003** Case Studies: Unusual Movement Disorders
- 6CS.004** Case Studies: Unusual Diagnostic and Management of Cases in Neuromuscular Disease
- 6CS.005** Case Studies in Behavioral Neurology

## Friday, April 27, 2012

## Morning Report

**6:30 a.m.–8:00 a.m.**

- 7MR.001** Morning Report: Challenging Headache Cases

## Neuro Flashes

**6:30 a.m.–8:00 a.m.**

- 7NF.001** Neuro Flash: Neuro-ophthalmology
- 7NF.002** Neuro Flash: Child Neurology

## Seminars

**6:30 a.m.–8:30 a.m.**

- 7SM.001** Balance and Gait Disorders
- 7SM.002** Therapeutic Hypothermia
- 7SM.003** Vaccines and Neurologic Adverse Events
- 7SM.004** Differential Diagnosis of Dementia: Linking Clinical Syndromes to Biomarkers

## A.M. Half-Day Courses

**8:00 a.m.–12:00 p.m.**

- 7AC.001** Diagnosis and Management of Leukodystrophies
- 7AC.002** Clinical EMG II
- 7AC.003** Sleep Disorders in Clinical Neurology
- 7AC.004** Botulinum Toxins: Practical Issues and Clinical Uses for Neurologists
- 7AC.005** Clinical Issues in Multiple Sclerosis
- 7AC.006** Traumatic Brain Injury

## Integrated Neuroscience Session

**8:00 a.m.–12:00 p.m.**

-  **CN** Pediatric Movement Disorders

## Full-Day Courses

**9:00 a.m.–5:00 p.m.**

- 7FC.001** Update in Neuroimaging: Essentials and Beyond-Part
- 7FC.002** Dementia Update
- 7FC.003** Clinical EEG
- 7FC.004** Neurology Update II

## Neuroscience Conference *(Registration is required)*

**9:00 a.m.–5:00 p.m.**

- 7SC.001** Future of Neuroscience Conference: Neurotranslation: Neurologists and Neuroscientists Defining the Next Generation of CNS Therapies

## Therapy Program

**9:00 a.m.–11:00 a.m.**

- 7TP.001** Therapy of Stroke

## Clinical Trials Forum

12:00 p.m.–1:30 p.m.

**Moderator:**

**Natalia Sana Rost, MD**

**Member, Science Committee**

This midday seminar covers important clinical topics identified from other society meetings that affect patient care. The latest updates within several clinical trials conducted over the course of the last year will be presented with an open panel discussion at the conclusion.

*See page 120 for more details*

## Therapy Programs

12:00 p.m.–2:00 p.m.

**7TP.002** Therapy of Multiple Sclerosis

**7TP.003** Therapy of Movement Disorders

## P.M. Skills Workshop

1:00 p.m.–5:00 p.m.

**7PW.001** Clinical Usefulness of Botulinum Toxin and Treatment of Dystonia

## P.M. Half-Day Courses

1:00 p.m.–5:00 p.m.

**7PC.001** Neuro-otology

**7PC.002** Primer of Behavioral Neurology

**7PC.003** Special Topics in the Neurology of Sleep

**7PC.004** Emergency Neurology

**7PC.005** Common Spine Disorders

**SE CN 7PC.006** Neurodevelopmental Disorders

## Therapy Programs

3:00 p.m.–5:00 p.m.

**7TP.004** Therapy of Headache

**7TP.005** Therapy of Neuromuscular Disease

## Scientific Program Highlights

5:15 p.m.–6:15 p.m.

**Moderator:**

**Lisa M. DeAngelis, MD, FAAN**

**Chair, Science Committee**

This plenary session reviews the most critical new research from more than 2,000 studies presented throughout the 2012 Scientific Program. Education Programs will end at 5:00 p.m. Friday, allowing time for meeting participants to attend this session.

## Saturday, April 28, 2012

### Seminars

6:30 a.m.–8:30 a.m.

**8SM.001** Sleep in CNS Disorders

**8SM.002** Vascular Cognitive Impairment and Dementia: Current Status and Future

**8SM.003** Pediatric Pseudotumor Cerebri: From Diagnosis to Treatment

**8SM.004** Update on Ataxias

**8SM.005** You Make the Call—An Interactive, Multimedia, Case-Based Approach to Learning EMG

### Extended Seminars

6:30 a.m.–9:30 a.m.

**8ES.001** Criteria for Stopping and Starting Multiple Sclerosis Therapy

**8ES.002** Acute Encephalopathy

### A.M. Half-Day Courses

9:00 a.m.–1:00 p.m.

**8AC.001** Update in Neuroimaging: Essentials and Beyond—Part II

**8AC.002** Neuromyelitis Optica: Scientific and Clinical Update

**8AC.003** Consultations in the Medical Surgical ICU

**8AC.004** How to Analyze Spells by Video-EEG

**8AC.005** Clinical Approach to Muscle Disease

**8AC.006** Psychiatry for the Neurologist

### Seminars

9:30 a.m.–11:30 a.m.

**8SM.006** Learning Movement Disorders in Hindsight: Lessons From My Patients

**8SM.007** Common and Important Ophthalmoscopic Findings

# Opportunities for Students, Residents, and Fellows

## Getting the Most From YOUR Annual Meeting Experience

Looking for opportunities to help you build your career? The AAN 64th Annual Meeting offers several can't miss opportunities for medical students, residents, and fellows to help establish a career path in neurology.

### Registration for Medical Students

Annual Meeting Registration is FREE to medical students, graduate students, and PhD candidates who present a student ID card or are AAN members!

### Registration for Residents and Fellows

Annual Meeting Registration is only \$100 (a \$740 savings from nonmember neurologist registration) before the early registration deadline of March 28, 2012.

### Reduced Rates for Education Programs

AAN member medical students, residents, fellows, grad students, and PhD candidates all receive a reduced rate for Education Programs.

## Courses to Help Prepare for Certification

### Saturday, April 21

#### Basic Science Resident Curriculum

A multi-part basic science curriculum will help neurology residents prepare for Part I of the Neurology Boards, and the RITE® exam.

- Resident Basic Science I: Neuropathology  
8:00 a.m.–12:00 p.m.
- Resident Basic Science II: Functional Neuroanatomy  
2:00 p.m.–6:00 p.m.

### Sunday, April 22

#### Basic Science Resident Curriculum

A multi-part basic science curriculum will help neurology residents prepare for Part I of the Neurology Boards, and the RITE exam.

- Resident Basic Science III: Neuropharmacology  
9:00 a.m.–1:00 p.m.

### Monday, April 23

#### **FREE** American Board of Psychiatry and Neurology Resident Informational Session

3:00 p.m.–4:00 p.m.

Meet members of the American Board of Psychiatry and Neurology (ABPN). The panel will discuss all aspects of the neurology boards and what is expected from candidates.

## Networking and Career Development

### All Week Long

#### **FREE** Neurology Career Center in the Exhibit Hall

Monday, April 23 / 4:30 p.m.–7:30 p.m.  
Tuesday, April 24 / 12:00 p.m.–5:00 p.m.  
Wednesday, April 25 / 12:00 p.m.–5:00 p.m.  
Thursday, April 26 / 11:00 a.m.–3:00 p.m.

No matter what the stage of your career, you will find something of value by visiting the Neurology Career Center in the Exhibit Hall. Chat live with recruiters from a variety of practice and hospital-based settings. Access the Online Job Fair and research hundreds of neurology-specific job opportunities. Pick up a copy of the Career Compass, the only onsite job listing available at the meeting. To inquire about exhibiting at the Neurology Career Center or the Online Job Fair, contact Amy Schoch at [aschoch@aan.com](mailto:aschoch@aan.com) or (651) 695-2749.

#### **FREE** The Experience For Junior Members and Medical Students

Saturday, April 21–Thursday, April 26

What is “The Experience?” A unique place to network and enjoy a “members only” experience at the Annual Meeting. The Experience provides an opportunity to learn about AAN resources and participate in scheduled presentations on a variety of topics such as having your CV evaluated by a Program Director or Department Chair and tips on finding the right fellowship. Light refreshments and wireless access will be available. Junior members and Medical Students are encouraged to partake in a comfortable, relaxed yet informative atmosphere.

For questions about The Experience, contact Cheryl Alementi at [calementi@aan.com](mailto:calementi@aan.com) or (651) 695-2737.

### Monday, April 23

#### **FREE** Student Interest Group in Neurology (SIGN) Meeting and Reception

4:30 p.m.–6:30 p.m.

Student and faculty representatives from SIGN chapters across the US and Canada will gather for panel presentations and discussions. Annual Meeting Scholarship winners must attend the SIGN meeting to be eligible for their scholarship. The SIGN meeting is free and open to all medical students.

#### **FREE** Futures in Clinical Research Luncheon

12:00 p.m.–1:30 p.m.

The luncheon will provide residents and fellows with a general overview on a career in clinical research and will give them an opportunity to interact with senior clinical researchers. **Residents and fellows must sign up to attend this event.**

For more information or to sign up, contact Nate Kosher at [nkosher@aan.com](mailto:nkosher@aan.com) or (651) 332-8674.



**FREE** **Consortium of Neurology Residents & Fellows (CNRF) Meeting**

4:00 p.m.–6:00 p.m.

Come and learn about the consortium, meet officers, and participate in discussions on a variety of topics such as American Board of Psychiatry and Neurology (ABPN) board preparation tips, advocacy, and fellowship training.

**FREE** **Residents and Fellows Career Forum and Reception**

6:30 p.m.–9:00 p.m.

Learn how to search for a fellowship, how program directors select fellows, and how a fellowship could benefit your career. Find out how to start a career in academics/research and private practice. Socialize with other residents and fellows as well as representatives from various neurology programs at the Reception and learn about potential positions from physician recruiters. Find out how the Neurology Career Center can help you kick start your career.

**Panel Forums**

6:30 p.m.–7:30 p.m.

- Fellowship Panel Find out how to select a fellowship, how program directors select fellows, and how a fellowship could benefit your career.
- Academic/Research Panel Learn how to start a career in academics/research.
- Private Practice Panel Learn about beginning a career in private practice.

**Poster Forum and Reception**

7:30 p.m.–9:00 p.m.

Network with other residents and representatives from various neurology programs and meet physician recruiters. Find answers to your questions regarding fellowships, academic research, and private practice career opportunities. Program directors will be available to answer questions about residency programs.

**International Component Posters**

Neurology residency programs that feature an international element will have the opportunity to showcase their programs during the poster forum and reception, and to share information about their international outreach. Neurology residency programs that have a formal affiliation with foreign programs that encompass teaching and research are encouraged to submit a poster.

For questions about the Residents and Fellows Career Forum and Reception, contact Cheryl Alementi at [calementi@aan.com](mailto:calementi@aan.com) or (651) 695-2737

**Tuesday, April 24**

**FREE** **Mentoring Sessions**

12:00 p.m.–1:30 p.m.

Residents and fellows will be encouraged to attend smaller mentoring sessions geared toward a subspecialty. The mentoring sessions will provide attendees with an opportunity to learn about fellowships available to them, possible educational opportunities,

and how to identify and obtain research funding—all from the perspective of their relevant subspecialty. Subspecialty topics include:

- Alzheimer's Disease
- Epilepsy
- Parkinson's Disease
- Muscular Dystrophy
- Multiple Sclerosis
- Child Neurology

**Residents and fellows must sign up to attend this event.**

For more information or to sign up, contact Nate Kosher at [nkosher@aan.com](mailto:nkosher@aan.com) or (651) 332-8674.

**Wednesday, April 25**

**FREE** **American Academy of Neurology and American Academy of Neurology Foundation Awards Luncheon**

12:00 p.m.–1:30 p.m.

Join AAN leaders as they honor the recipients of the 2012 AAN Awards. From enterprising high school students to world-renowned researchers, the program recognizes some of the top accomplishments in neuroscience research. For more information, see page 85.

**Opportunities to Save Money!**

**Save Money with Rush Line Tickets and Program Discounts**

Check in at the Information Booth located at the New Orleans Ernest N. Morial Convention Center each morning for free tickets to education programs for that day. A minimum of two tickets will be held for each program available on a first-come, first served basis. Eligible participants are limited to two free programs per day, and three free programs for the week unless there are unclaimed Rush Line tickets ten minutes prior to a program starting. The Rush Line is available for all programs except Workshops and Skills Pavilions.

**Get 50% Off Education Program Registration!**

Juniors who register for two Education Programs at full price can receive 50% off the cost of a third education program of equal or lesser value!

**Education and Scientific Program Monitors**

See page 129 more information.

**EMG Skills Workshop Volunteers**

See page 129 more information.

**Hotel Rates**

The AAN has set aside a limited number of rooms at the Courtyard Convention Center, Hilton Garden Inn, Hilton Riverside, Hyatt Place (formerly Hotel New Orleans), Le Pavillon. Rooms are available on a first-come, first-served basis. Please note that the Housing deadline is March 21, 2012.

# What's Free with Your Registration?

Whether you're a practicing neurologist, an academic researcher, or a trainee, the AAN provides a wealth of free opportunities to heighten your Annual Meeting experience. Take advantage of these remarkable scientific, practice, advocacy, and social events at no additional cost.

## FREE Programs to help you

- Stay current with the latest research and scientific sessions
- Enhance your practice with educational colloquiums
- Network with colleagues
- Participate in Academy business

## Saturday, April 21

- **Brain Health Fair**  
9:30 a.m.–3:30 p.m.
- **1EC.001 BRAINS Colloquium: BRAINS, Business, and All That Jazz**  
12:00 p.m.–4:00 p.m.

## Sunday, April 22

- **SEP PN Integrated Neuroscience Session: Peripheral Nerve Regeneration**  
8:00 a.m.–12:00 p.m.
- **2EC.001 Patient Safety Colloquium**  
9:00 a.m.–12:00 p.m.
- **2EC.002 Practice Colloquium: Prepare Your Practice for the Future: What Will the Practice of Neurology Look Like in 2017?**  
1:00 p.m.–4:00 p.m.
- **SEP CV Integrated Neuroscience Session: The Essential Role of Neurologists in Treating and Preventing Stroke**  
2:00 p.m.–6:00 p.m.
- **2EC.003 Clinical Research Colloquium**  
2:00 p.m.–6:00 p.m.
- **Celebration for Research**  
6:00 p.m.–11:00 p.m.

## Education Program Evaluation Forms— Now Online Only!

In an effort to be conscious of both the environment and your time, all 2012 Annual Meeting Education Program evaluation forms will be handled electronically only—online and at your convenience. Simply log on to *AAN.com* after you've attended your applicable course or program to complete the form and receive your CME.

## Monday, April 23

- **AAN Business Meeting**  
8:00 a.m.–8:30 a.m.
- **Integrated Neuroscience Session: Biomarkers in Neurological Diagnosis and Therapeutic Monitoring**  
8:00 a.m.–12:00 p.m.
- **SEP A/D Integrated Neuroscience Session: Non-memory Systems in the Brain**  
8:00 a.m.–12:00 p.m.
- **3EC.001 Education Colloquium: "Simulation in Neurology Education"**  
8:30 a.m.–12:00 p.m.
- **3EC.002 International Colloquium**  
12:00 p.m.–2:00 p.m.
- **NEW: Hot Topics in Education: Institute of Medicine Report on Epilepsy**  
12:30 p.m.–1:30 p.m.
- **Best Care Expo: Eight Paths to Practice Excellence**  
1:00 p.m.–3:00 p.m.
- **SEP EP Integrated Neuroscience Session: Epilepsy and Channelopathies**  
2:00 p.m.–6:00 p.m.
- **SEP MD Integrated Neuroscience Session: Plasticity in Basal Ganglia Therapy**  
2:00 p.m.–6:00 p.m.
- **Poster Session I (with Discussion Session)**  
2:00 p.m.–6:30 p.m.
- **The \$44,000 Question: Are You Ready to Make the Most Out of Your EHR?**  
2:30 p.m.–5:30 p.m.
- **ABPN Resident Informational Session**  
3:00 p.m.–4:00 p.m.
- **3EC.003 Education Research Colloquium**  
3:00 p.m.–6:00 p.m.
- **3EC.004 Research Coordinator Colloquium**  
3:00 p.m.–6:00 p.m.
- **Exhibit Hall Opening Reception**  
4:30 p.m.–7:30 p.m.
- **Consortium of Neurology Residents & Fellows (CNRFF) Meeting**  
4:00 p.m.–6:00 p.m.
- **Student Interest Group in Neurology (SIGN) Meeting**  
4:30 p.m.–6:30 p.m.
- **Residents and Fellows Career Forum and Reception**  
6:30 p.m.–9:00 p.m.

# What's Free with Your Registration?

## Tuesday, April 24

---

- **Poster Session II (with Discussion Session)**  
7:30 a.m.–12:00 p.m.
- **Presidential Plenary Session**  
9:00 a.m.–12:00 p.m.
- **4EC.001 NIH and the Practice of Neurology: What's New? What's Next?**  
12:00 p.m.–2:00 p.m.
- **New Exhibit Hours!**  
12:00 p.m.–5:00 p.m.
- **Scientific Sessions**  
1:00 p.m.–4:30 p.m.
- **Integrated Neuroscience Session: Mitochondrial Diseases in Neurology**  
1:00 p.m.–5:00 p.m.
- **Poster Session III (with Discussion Session)**  
2:00 p.m.–6:30 p.m.
- **Hot Topics Forum**  
5:15 p.m.–6:15 p.m.
- **Corporate Therapeutic Updates**  
7:00 p.m.–10:00 p.m.

## Wednesday, April 25

---

- **Poster Session IV (with Discussion Session)**  
7:30 a.m.–12:00 p.m.
- **Contemporary Clinical Issues Plenary Session**  
9:00 a.m.–12:00 p.m.
- **New Exhibit Hours!**  
12:00 p.m.–5:00 p.m.
- **5EC.001 Ethics Colloquium**  
2:00 p.m.–3:30 p.m.
- **Scientific Sessions**  
2:00 p.m.–5:30 p.m.
- **NEW: Controversies in Neuroscience Session**  
2:00 p.m.–5:00 p.m.
- **Integrated Neuroscience Session: Stem Cells**  
2:00 p.m.–6:00 p.m.
- **Poster Session V (with Discussion Session)**  
2:00 p.m.–7:00 p.m.
- **Current Practice Issues in Neurology**  
5:30 p.m.–7:00 p.m.
- **Highlights in the Field Sessions**  
6:30 p.m.–7:30 p.m.

## Thursday, April 26

---

- **Poster Session VI (with Discussion Session)**  
7:30 a.m.–12:00 p.m.
- **Frontiers in Translational Neuroscience Plenary Session**  
9:00 a.m.–11:00 a.m.
- **New Exhibit Hours!**  
11:00 a.m.–3:00 p.m.
- **Scientific Sessions**  
1:00 p.m.–4:30 p.m.
- **Integrated Neuroscience Session: RNA Metabolism in Neurodegeneration**  
1:00 p.m.–5:00 p.m.
- **Poster Session VII (with Discussion Session)**  
2:00 p.m.–6:30 p.m.
- **Highlights in the Field Sessions**  
5:00 p.m.–6:00 p.m.

## Friday, April 27

---

- **SN-CN Integrated Neuroscience Session: Pediatric Movement Disorders**  
8:00 a.m.–12:00 p.m.
- **Clinical Trials Forum**  
12:00 p.m.–1:30 p.m.
- **Scientific Program Highlights**  
5:15 p.m.–6:15 p.m.

## Extend Your Experience with These Annual Meeting Resources

- **Academy Central:** Your one-stop shop for AAN products, services, and more
- **Research Area:** Support cures for brain disease and see the future of neurology
- **Neurology Career Center in the Exhibit Hall:** Meet employers, search for jobs, and get career tools
- **Resident/Medical Student Rush Line:** Free Education program tickets, first-come, first-served

### Annual Meeting Program— Now Online Only!

In an effort to be conscious of the environment and to begin establishing a searchable archive of meeting abstracts, all scientific abstracts for the 2012 Annual Meeting will only be available online through the Abstracts Online and *Neurology.org* websites. See page 19 of this book to learn more.

## **PN Integrated Neuroscience Session: Peripheral Nerve Regeneration**

Coordinators: Ahmet Hoke, MD, PhD and Douglas Zochodne, MD



### Invited Speaker Session\* / 8:00 a.m. – 10:00 a.m.

- 8:00 a.m. – 8:15 a.m.** Revitalizing Nerves: The Long Term Denervated Stump *Ahmet Hoke, MD, PhD*
- 8:15 a.m. – 8:30 a.m.** Axonal Damage: Mechanisms of Damage in Chemotherapeutic and Other Toxic Neuropathies *Anthony Windebank, MD, FAAN*
- 8:30 a.m. – 8:45 a.m.** When to Operate: Traumatic Nerve Lesions *Rajiv Midha, MD*
- 8:45 a.m. – 9:00 a.m.** Steps in the Regenerative Process *Douglas Zochodne, MD*
- 9:00 a.m. – 9:15 a.m.** Neurotrophins and Other Growth Factors in Nerve Regeneration *Ahmet Hoke, MD, PhD*
- 9:15 a.m. – 9:30 a.m.** Novel Forms of Nerve Repair *Anthony Windebank, MD, FAAN*
- 9:30 a.m. – 9:45 a.m.** Advances in Nerve Repair *Rajiv Midha, MD*
- 9:45 a.m. – 10:00 a.m.** Roadblocks to Nerve Repair *Douglas Zochodne, MD*

### Poster Rounds\* / 10:00 a.m. – 11:00 a.m.

- IN1-1.001** A Screening Assay for Myelin Protein Zero Mutants: Unfolded Protein Response Activation and Its Significant Reduction by Curcumin Treatment *Agnes Patzko, John Kamholz, Jasloveen Sohi, Elisa Tinelli, Paola Saveri, Domenica Vizzuso, Laura Feltri, Lawrence Wrabetz, Michael Shy*
- IN1-1.002** Evaluation of Dermal Myelinated Fibers in Diabetic Polyneuropathy *M. Myers, Jun Li, Kay Artibe, Amanda Peltier*
- IN1-1.003** Virtual Demyelination and Tight Junction Defect in PMP22 Deficiency *Jiasong Guo, Qing Yan, Gina Sosinsky, Mark Ellisman, Ueli Suter, Jun Li*
- IN1-1.004** Useful Biomarkers for the Diagnosis of Painful Diabetic Neuropathy *Hsin-Lin Cheng, Jacqueline Dauch, Michael Porzio, Brandon Yanik, Wilson Hsieh, A. Smith, J. Singleton, Eva Feldman*
- IN1-1.005** Neuropathy Due to Amiodarone: Schwann Cells Are the Target *Kelsey Hohol, Zaid Jawad, Amit Ayer, Cory Toth*
- IN1-1.006** Regulatory T Cells Determine Disease Severity in Experimental Autoimmune Neuropathies *Gerd Meyer Zu Horste, Steffen Cordes, Anne Mausberg, Hans Hartung, Bernd Kieseier*
- IN1-1.007** Bioenergetic Metabolites in the Diabetic Peripheral Nervous System *Lucy Hinder, Carolyn Buller, Subramaniam Pennathur, Eva Feldman*
- IN1-1.008** Anti-Ganglioside Antibodies Induce Neuropathy Via Fcγ Receptors in Mice *Lan He, Gang Zhang, Kazim Sheikh*
- IN1-1.009** Mass Spectrophotometric Analysis of Focal Neural Amyloid Deposition Reveals Isolated Non-Mutated ApoA1 Amyloidosis *Adam Loavenbruck, Vinay Chaudhry, Steven Zeldenrust, Jason Theis, Christopher Klein*
- IN1-1.010** Methylmalonic Acid Accumulation and the Development of Peripheral Neuropathy *George Francis, Kelsey Hohol, Zaid Jawad, Amit Ayer, Cory Toth*

### Data Blitz Session\* / 11:00 a.m. – 11:30 a.m.

- |   |   |  |
|---|---|--|
| <p><b>11:00 a.m.</b> <b>IN1-2.001</b><br/>Degeneration and Regeneration of Peripheral Motor Axons Is Impaired in Mice Heterozygously Deficient for the Myelin Protein P<sub>0</sub> Gene <i>Christian Krarup, Mette Rosberg, Jonas Vikeså, Finn Cilius Nielsen, Mihai Moldovan</i></p> <p><b>11:05 a.m.</b> <b>IN1-2.002</b><br/>Immune Complex-Induced Inflammation as a Mechanism of Inhibition of Peripheral Nerve Regeneration <i>Kazim Sheikh, Gang Zhang, Nataliia Bogdanova, Tong Gao, Lixia Guo, Cynthia Massaad, Manisha Kotha</i></p> | <p><b>11:10 a.m.</b> <b>IN1-2.003</b><br/>Comparison of Recovery of Tactile Function and Sensation after Median or Ulnar Nerve Lesions Repaired by Suture or Nerve Guide <i>Christian Krarup, Birgitta Rosén, Michel Boeckstyns, Allan Ibsen, Simon Archibald</i></p> <p><b>11:15 a.m.</b> <b>IN1-2.004</b><br/>RAGE-Dependent Signaling in Peripheral Neurons and Macrophages Regulates Peripheral Nerve Repair <i>Lingling Rong, Shifang Yan, Arthur Hays, Clifton Gooch, Ann Marie Schmidt</i></p> | <p><b>11:20 a.m.</b> <b>IN1-2.005</b><br/>Reduced Kv1-Channel Localization in Juxtaparanodal Regions Mediate Peripheral Nerve Hyperexcitability in Diabetic Neuropathy <i>Jennifer Zenker, Olivier Poirot, Anne-Sophie de Preux Charles, Estelle Arnaud, Jean-Jacques Médard, Catherine Lacroix, Thierry Kuntzer, Roman Chrast</i></p> |
|---|---|--|

### Panel Discussion / 11:30 a.m. – 12:00 p.m.

\*Speakers and titles are subject to change

**SIF TRACK CV Integrated Neuroscience Session:  
The Essential Role of Neurologists in Treating and Preventing Stroke**

Coordinators: Ralph Sacco, MD, MS, FAHA, FAAN and Pierre Fayad, MD, FAAN



**Invited Speaker Session\* / 2:00 p.m. – 4:00 p.m.**

- 2:00 p.m. – 2:30 p.m.** New Options in Oral Anticoagulation for Atrial Fibrillation: Enhance the Role of Neurologists in Selecting and Monitoring Treatment *Karen Furie, MD*
- 2:30 p.m. – 3:00 p.m.** Intracranial Artery Stenosis: Challenging Neurologists To Be in the Frontline of Managing Aggressive Medical Therapy *Tanya Turan, MD*
- 3:00 p.m. – 3:30 p.m.** Carotid Stenosis Management: Neurologist’s Primary Role in Patient Evaluation, Treatment Selection, and Monitoring *Thomas Brott, MD, FAAN*
- 3:30 p.m. – 4:00 p.m.** Intracerebral Hemorrhage: Primary Role of the General and Critical Care Neurologist in Prevention, Diagnosis and Management *Michel Torbey, MD, MPH*

**Poster Rounds\* / 4:00 p.m. – 5:00 p.m.**

- |  |  |  |   |
|--|--|--|---|
| <p><b>IN2-1.001</b> Restenosis Following Carotid Artery Stenting and Endarterectomy in the Carotid Revascularization Endarterectomy Versus Stenting Trial <i>Brajesh Lal, Kirk Beach, Gary Roubin, Helmi Lutsep, Wesley Moore, Mahmoud Malas, David Chiu, Nicole Gonzales, James Burke, Michael Rinaldi, James Elmore, Fred Weaver, Craig Narins, Malcolm Foster, Kim Hodgson, Alexander Shepard, James Meschia, Robert Bergelin, Jenifer Voeks, George Howard, Thomas Brott</i></p> | <p><b>IN2-1.002</b> Image Guided Patient Selection and Its Impact on Outcome: Results of the Penumbra Imaging Collaborative Study (PICS) <i>Osama Zaidat, Sean Meagher, Michael Brant-Zawadzki, Jeffrey Farkas, Reza Malek, Benjamin Crandall, Donald Frei, Ferdinand Hui, Michael Alexander, Brian Chong, Nazli Janjua, Darryn Shaff, Dileep Yavagal, Donald Heck, Tim Malisch, Aquilla Turk, III, Minako Hayakawa, Laszlo Miskolczi, Robert Tarr, Rafael Ortiz, Alois Zauner, Richard Klucznik, Christopher Zylak, Albert Yoo, Elan Mualem, Arani Bose, Siu Po Sit, For the PICS Investigators</i></p> <p><b>IN2-1.003</b> Disparities in Stroke Incidence among White, Black and Hispanics in the Northern Manhattan Study <i>Valeria Battistella, Yeseon Moon, Consuelo Mora-McLaughlin, Clinton Wright, Tatjana Rundek, Myunghee Paik, Ralph Sacco, Mitchell Elkind</i></p> | <p><b>IN2-1.004</b> Gradient-Echo and Segmented-EPI Imaging Comparison in Thrombolytic Treated Patients <i>Daymara Hernandez, Jose Merino, Jason Freeman, Marie Luby, Steven Warach, Lawrence Latour</i></p> <p><b>IN2-1.005</b> Acute Ischemic Stroke Treatment with Mechanical Embolectomy Has Doubled in the US from 2008 to 2010 <i>Pooja Khatri, Karthikeyan Meganathan, Opeolu Adeoye, Richard Homung, Dawn Kleindorfer</i></p> <p><b>IN2-1.006</b> Trends in Complication Rates for Stenting of Asymptomatic Carotids: A Nationwide Evaluation outside Clinical Trials <i>Amit Kansara, Seemant Chaturvedi, Pratik Bhattacharya</i></p> | <p><b>IN2-1.007</b> A Comparison of Carotid Artery Stent Placement Performed within and outside Clinical Trials in the United States <i>Haiham Hussein, Saqib Chaudhry, Rakesh Khatri, Shahram Majidi, Gustavo Rodriguez, Muhammad Suri, Adnan Qureshi</i></p> <p><b>IN2-1.008</b> Diagnosis of Transient Ischemic Attack Varies by Neurologist <i>Deepa Bhupali, Huma Sheikh, Daniel Labovitz</i></p> <p><b>IN2-1.009</b> Early Access to a Neurologist Reduces the Rate of Stroke Misdiagnosis in Young Adults <i>Wazim Mohamed, Ariel Majjhoo, Seemant Chaturvedi</i></p> <p><b>IN2-1.010</b> Intravenous Thrombolysis Administered by Vascular vs. Non-Vascular Neurologists in a Statewide Telestroke Network <i>Shadi Yaghi, Salah Keyrouz, Archana Hinduja, Shuja Rayaz, Nicolas Bianchi</i></p> |
|--|--|--|---|

**Data Blitz Session\* / 5:00 p.m. – 5:30 p.m.**

- |  |  |  |   |
|--|--|--|---|
| <p><b>5:00 p.m. IN2-2.001</b><br/>Angiographic Predictors of Stroke after Carotid Artery Stenting – A Qualitative and Quantitative Analysis of 1070 Patients in the Carotid Revascularization Endarterectomy Versus Stenting Trial <i>Gary Roubin, Jeffrey Popma, Alexandra Almonacid, William Morrish, Barry Katzen, Elie Chakhtoura, Brajesh Lal, Jenifer Voeks, James Meschia, Thomas Brott</i></p> | <p><b>5:05 p.m. IN2-2.002</b><br/>Improved Clinical Outcomes in Medicare Beneficiaries with Acute Ischemic Stroke during Initial Implementation of the Get with the Guidelines-Stroke Program 2003-2008 <i>Sarah Song, Gregg Fonarow, Wenqin Pan, DaiWai Olson, Adrian Hernandez, Eric Peterson, Mathew Reeves, Eric Smith, Lee Schwamm, Jeffrey Saver</i></p> | <p><b>5:10 p.m. IN2-2.003</b><br/>National Trends in Underlying Etiologies in Patients with Ischemic Stroke: An Analysis in United States from 2002-2009 <i>Swaroop Pawar, Vikram Jadhav, Saqib Chaudhry, Ameer Hassan, Amir Khan, Gustavo Rodriguez, M. Fareed Suri, Adnan Qureshi</i></p> <p><b>5:15 p.m. IN2-2.004</b><br/>Life-Time Bleeding Events among Stroke Patients with Atrial Fibrillation during Warfarin Treatment: A Population-Based Cohort Study <i>Raymond Seet, Alejandro Rabinstein, Teresa Christianson, George Petty, Robert Brown</i></p> | <p><b>5:20 p.m. IN2-2.005</b><br/>Pre-Existing Statin Therapy Reduces Early Mortality in Patients with Acute Ischemic Stroke. Data from the Stroke Registry in the German Federal State of Schleswig-Holstein (QugSS2) <i>Mohamed Al-Khaled, Christine Matthis, Jürgen Eggers</i></p> |
|--|--|--|---|

**Panel Discussion / 5:30 p.m. – 6:00 p.m.**

**Platform Session / 11:30 a.m. – 12:00 p.m.**

*\*Speakers and titles are subject to change*

## Integrated Neuroscience Session: Biomarkers in Neurological Diagnosis and Therapeutic Monitoring

Coordinators: Walter Koroshetz, MD, FAAN and Richard King, MD, PhD

### Invited Speaker Session\* / 8:00 a.m. – 10:00 a.m.

- 8:00 a.m. – 8:05 a.m.** Introduction *Richard King, MD, PhD*
- 8:05 a.m. – 8:20 a.m.** Biomarker 101: Be Careful About What You Ask For *Walter Koroshetz, MD, FAAN*
- 8:20 a.m. – 9:05 a.m.** Biomarkers of Therapeutic Response: Tools Enabling Smarter Drug Development and Personalized Medicine *Paul Matthews, MD*
- 9:05 a.m. – 9:50 a.m.** Biomarker Discovery and Application for Neurodegenerative Diseases *Thomas Montine, MD, PhD*
- 9:50 a.m. – 10:00 a.m.** Questions and Answers

### Poster Rounds\* / 10:00 a.m. – 11:00 a.m.

- IN3-1.001** High Sensitivity C-Reactive Protein to Interleukin 6 Ratio and Ischemic Stroke Risk in a Multi-Ethnic Cohort: The Northern Manhattan Study *Jorge Luna, Yeseon Moon, Khin Liu, Sandino Cespedes, Steven Spitalnik, Myunghee Paik, Ralph Sacco, Mitchell Elkind*
- IN3-1.002** Immune Response to Cerebral Ischemia To Identify Ischemic Transient Neurological Events *Glen Jickling, Xinhua Zhan, Boryana Stamova, Bradley Ander, Shara-Mae Sison, Piero Verro, S. Johnston, Frank Sharp*
- IN3-1.003** Identifying the Anti-Tr Antigen in Paraneoplastic Cerebellar Degeneration *Peter Sillevs Smitt, Esther de Graaff, Peter Maat, Esther Hulsenboom, Robert van den Berg, Jeroen Demmers, Casper Hoogenraad*
- IN3-1.004** Advanced MRI Neural Network Analysis for Determining the Neuroanatomic Basis of Traumatic Coma *Brian Edlow, Emi Takahashi, Peter Cummings, Joshua Klein, Robin Haynes, Ona Wu, David Greer, Steven Greenberg, Hannah Kinney, Rebecca Folkerth*
- IN3-1.005** MR Spectroscopy Markers of Disease Progression in Multiple Sclerosis: A Clinical Validation Study *Sara Lufriu, John Komak, Helen Ratiney, Joonmi Oh, Don Brennehan, Mehul Sampat, Stephen Hauser, Sarah Nelson, Radhika Srinivasan, Daniel Pelletier*
- IN3-1.006** Alpha Synuclein as a Cutaneous Biomarker of Parkinson Disease *Ningshan Wang, Christopher Gibbons, Jacob Lafo, Roy Freeman*
- IN3-1.007** PET Imaging of Striatal Oxidative Stress in Patients with Parkinson's Disease Using <sup>62</sup>Cu-ATSM *Masamichi Ikawa, Hidehiko Okazawa, Takashi Kudo, Yasunari Nakamoto, Yasuhisa Fujibayashi, Makoto Yoneda*
- IN3-1.008** Mild Neurocognitive Impairment in HIV Infection Is Associated with Neuroinflammation on Positron Emission Tomography *William Kreisl, Amira Brown, Chul Hyoung Lyoo, Yi Zhang, Cheryl Morse, Kimberly Jenko, David Clark, Sami Zoghbi, Deneen Esposito, Gilbert Mbeo, Jason Creighton, Victor Pike, Robert Innis, Justin McArthur*
- IN3-1.009** [<sup>18</sup>F]-Flutemetamol PET Amyloid Imaging and Cortical Biopsy Histopathology in Normal Pressure Hydrocephalus: Pooled Analysis of Four Studies *David Volk, Juha Rinne, Dean Wong, Ville Leinonen, Steven Arnold, Chris Buckley, Adrian Smith, Richard McLain, Paul Sherwin, Gill Farrar, Marita Kailajärvi, Igor Grachev*
- IN3-1.010** Improving Diagnostic Accuracy for Dementia: CSF Biomarker Cutoffs Based on Clinical and Neuropathological Criteria *Jon Toledo, Johannes Bretschneider, Murray Grossman, Steven Arnold, William Hu, Sharon Xie, Virginia Lee, Leslie Shaw, John Trojanowski*

### Data Blitz Session\* / 11:00 a.m. – 11:30 a.m.

- |   |  |   |   |
|---|--|---|---|
| <p><b>11:00 a.m.</b> <b>IN3-2.001</b><br/>Risk Reduction of Brain Infarctions during Carotid Endarterectomy and Carotid Stenting Using Sonolysis <i>Roman Herzig, David Skoloudik, Martin Kuliha, Martin Roubec, Vaclav Prochazka, Tomas Jonszta, Jan Krajca, Daniel Czerny, Tomas Hrbac, David Otahal</i></p> <p><b>11:05 a.m.</b> <b>IN3-2.002</b><br/>Effect of BG-12 on Brain Atrophy and Lesions Volume: MRI Results from the DEFINE Study during First and Second Year of Treatment <i>Douglas Arnold, Ralf Gold, Ludwig Kappos, Amit Bar-Or, Gavin Giovannoni, Krzysztof Selmaj, Ray Zhang, Monica Stephan, Katherine Dawson</i></p> | <p><b>11:10 a.m.</b> <b>IN3-2.003</b><br/>A Genetic Model To Predict Response to Glatiramer Acetate Developed from a Genome Wide Association Study (GWAS) <i>Fabio Macchiardi, Jeffrey Cohen, Manuel Comabella Lopez, Giancarlo Comi, Gary Cutter, Eli Eyal, Massimo Filippi, Joseph Levy, Fred Lublin, Xavier Montalban, Jorge Oksenberg, Amir Tchelet, Sagit Weiss, Jerry Wolinsky</i></p> | <p><b>11:15 a.m.</b> <b>IN3-2.004</b><br/>Increased Lymphocyte-Platelet Complex Formation as a Measure of Enhanced Platelet Activation in Recently Symptomatic Versus Asymptomatic 'Microembolic Signal Negative' Carotid Stenosis Patients – Results from the Platelets and Carotid Stenosis (PACS) Study <i>Justin Kinsella, Oliver Tobin, Sean Tierney, T. Martin Feeley, Bridget Egan, D. Ronan Collins, Tara Coughlan, Desmond O'Neill, Joseph Harbison, Colin Doherty, Prakash Madhavan, Dermot Moore, Sean O'Neill, Raymond Murphy, Maher Saqqur, George Hamilton, Dominick McCabe</i></p> | <p><b>11:20 a.m.</b> <b>IN3-2.005</b><br/>Initial Study of rh-IGF1 (Mecasermin [DNA] Injection) for Treatment of Rett Syndrome and Development of Rett-Specific Novel Biomarkers of Cortical and Autonomic Function <i>Eugenia Ho, Katherine Barnes, Heather O'Leary, Matthew Gregas, Ingrid Holm, Leonard Rappaport, Mriganka Sur, Omar Khwaja</i></p> |
|---|--|---|---|

### Panel Discussion / 11:30 a.m. – 12:00 p.m.

\*Speakers and titles are subject to change

## **A/D Integrated Neuroscience Session: Non-memory Systems in the Brain**

Coordinators: Kirk Daffner, MD and Mark D'Esposito, MD

### Invited Speaker Session\* / 8:00 a.m. – 10:00 a.m.

- 8:00 a.m. – 8:05 a.m.** Introduction *Kirk Daffner, MD*
- 8:05 a.m. – 8:35 a.m.** Development of Non-Memory Systems *Stewart Mostofsky, MD*
- 8:35 a.m. – 9:05 a.m.** Language Systems *Argye Hillis, MD, MA*
- 9:05 a.m. – 9:30 a.m.** Fronto-Executive Systems *Mark D'Esposito, MD*
- 9:30 a.m. – 10:00 a.m.** Degeneration of Non-Memory Systems *William Seeley, MD*

### Poster Rounds\* / 10:00 a.m. – 11:00 a.m.

- |   |  |  |  |
|---|--|--|--|
| <p><b>IN4-1.001</b> Precuneus Glutamate and GABA Predict Default Mode Network Activity <i>Dimitrios Kapogiannis, David Reiter</i></p> <p><b>IN4-1.002</b> Transcranial Magnetic Stimulation Improves Fluency in Non-Fluent Aphasia after Stroke <i>Roy Hamilton, Jared Medina, Catherine Norise, Peter Turkeltaub, H. Coslett</i></p> <p><b>IN4-1.003</b> Spelling Errors in Primary Progressive Aphasia <i>Hyung Shim, Robert Hurley, Emily Rogalski, M. Mesulam</i></p> | <p><b>IN4-1.004</b> Age-Related Changes in the Processing of To-be-Ignored Stimuli: Preserved Selective Attention Does Not Prevent Subsequent Allocation of Excessive Processing Resources <i>Brittany Alperin, Anna Haring, Tatyana Zhuravleva, Phillip Holcomb, Dorene Rentz, Kirk Daffner</i></p> <p><b>IN4-1.005</b> The Neuro-Anatomic Basis of Feature Saliency in Face Processing: An fMRI-Adaptation Study <i>Joshua Lai, Raika Pancaroglu, Ipek Oruc, Jason Barton, Jodie Davies-Thompson</i></p> | <p><b>IN4-1.006</b> Inflammation Is Related to Corpus Callosum Integrity and Executive Functions in Healthy Older Adults <i>Brianne Bettcher, Christa Watson, Ralph Green, Joshua Miller, Caroline Racine, Reva Wilhelm, Bruce Miller, Joel Kramer</i></p> <p><b>IN4-1.007</b> Brain Imaging Correlates and Executive Impairments in Individuals with Epilepsy and Comorbid Major Depression <i>Mario Dulay, Whitney Havins, Krissa Agbayani, Jennifer Travis Seidl, Christof Karmonik, Zhong Xue, Amit Verma, Makoto Kawai, Robert Grossman</i></p> | <p><b>IN4-1.008</b> Rodent Model of the Effect of beta-Adrenergic Agents on Creative Problem Solving <i>David Beversdorf, Patrick Hecht, Jill Hampton, Todd Schachtman, Matthew Will</i></p> <p><b>IN4-1.009</b> Anhedonia in Combat Veterans with Penetrating Head Injury <i>Jeffrey Lewis, Eric Wassermann</i></p> <p><b>IN4-1.010</b> The Neural Basis of Coordination in Social Decision-Making: Evidence from Lewy Body Spectrum Disorder <i>Rachel Goldmann Gross, Corey McMillan, Jessica Kitain, Katya Rascovsky, Robin Clark, Murray Grossman</i></p> |
|---|--|--|--|

### Data Blitz Session\* / 11:00 a.m. – 11:30 a.m.

- |  |   |  |  |
|--|---|--|--|
| <p><b>11:00 a.m.</b> <b>IN4-2.001</b><br/>Transcranial Direct Current Stimulation Enhances Contralateral Visual Target Detection <i>Roy Hamilton, Jared Medina, Jacques Beauvais, Abhishek Datta, Marom Bikson, H. Coslett</i></p> | <p><b>11:05 a.m.</b> <b>IN4-2.002</b><br/>The Concurrent Validity and Neuroanatomical Correlates of the EXAMINER: An Executive Function Assessment Designed for Clinical Trials <i>Katherine Possin, Dan Mungas, Amanda LaMarre, Kristie Wood, Ashley Berhel, Lena Sinha, Joel Kramer</i></p> | <p><b>11:10 a.m.</b> <b>IN4-2.003</b><br/>Abstract Rule Learning: The Differential Effects of Lesions in Frontal Cortex <i>Andrew Kayser, Mark D'Esposito</i></p> <p><b>11:15 a.m.</b> <b>IN4-2.004</b><br/>Dissociated Response to Prism Adaptation: "Aiming" Spatial-Motor Bias, Not "Where" Perceptual-Attentional Bias, Is Key Predictor <i>A. Barrett, Kelly Goedert, Peii Chen, Raymond Boston</i></p> | <p><b>11:20 a.m.</b> <b>IN4-2.005</b><br/>Age-Related Changes in Selective Attention in the Very Old: A Bottom-Up or Top-Down Problem? <i>Tatyana Zhuravleva, Anna Haring, Brittany Alperin, Phillip Holcomb, Dorene Rentz, Kirk Daffner</i></p> |
|--|---|--|--|

### Panel Discussion / 11:30 a.m. – 12:00 p.m.

### Platform Session / 11:30 a.m. – 12:00 p.m.

\*Speakers and titles are subject to change

**SIF TRACK** **EP** **Integrated Neuroscience Session: Epilepsy and Channelopathies**



Coordinators: Jaideep Kapur, MD, PhD and Amy Brooks-Kayal, MD

**Invited Speaker Session\* / 2:00 p.m. – 4:00 p.m.**

**2:00 p.m. – 2:30 p.m.** Inherited and Acquired Modifications in Neurotransmitter Receptors in Epilepsy *Amy Brooks-Kayal, MD*

**2:30 p.m. – 3:00 p.m.** Ion Channel Modifications in Epilepsy *Edward Cooper, MD, PhD*

**3:00 p.m. – 3:30 p.m.** Mechanisms of Cognitive Deficits in Epilepsy *Gregory Holmes, MD*

**3:30 p.m. – 4:00 p.m.** Common Mechanisms of Autism and Epilepsy *Frances Jensen, MD*

**Poster Rounds\* / 4:00 p.m. – 5:00 p.m.**

**IN5-1.001** Neuroprotectin D1 Attenuates Epileptogenesis *Alberto Musto, Kaveh Khoobehi, Chelsey Walker, Nicolas Bazan*

**IN5-1.002** Hypothermia Attenuates Neuro-Glial Injury and Neuroinflammation in Prolonged Status Epilepticus *Sandipan Pati, J. X. Yin, Y. Gan, J. Georges, V. Jayaram, S. Marsh, Fu-Dong Shi, Marwan Maalouf, David Treiman*

**IN5-1.003** Role of M-Type Potassium Channels Glutamatergic Synaptic Transmission and Status Epilepticus *Jaideep Kapur, Jian Sun*

**IN5-1.004** Perampanel, a Selective, Non-Competitive AMPA Receptor Antagonist, Prolongs Time to Seizure Recurrence in Patients with Epilepsy: Results of Pooled Phase III Clinical Trial Data *Antonio Laurenza, Jacqueline French, Antonio Gil-Nagel, Renzo Guerrini, David Squillacote, Haichen Yang, Dinesh Kumar*

**IN5-1.005** Comparison of Zonisamide and Carbamazepine Monotherapy in Adults with Newly Diagnosed Partial Epilepsy: Results of a Phase III, Randomized, Double-Blind, Non-Inferiority Trial *Michel Baulac, Martin Brodie, Joanna Segieth, Luigi Giorgi*

**IN5-1.006** Prevalence Ratios for Unintended Pregnancy on Various Contraceptive Methods and AEDs in Women with Epilepsy: Interim Analysis from the Epilepsy Birth Control Registry *Andrew Herzog, Anne Davis, W. Hauser, Arielle Saporta, Kaitlyn Cahill, Kristen Fowler*

**IN5-1.007** Discordance on fMRI and Wada Tests of Language Dominance in a Large Epilepsy Cohort *Jeffrey Binder, Julie Janecek, Sara Swanson, David Sabsevitz, Thomas Hammke*

**IN5-1.008** Safety of Video-EEG Monitoring from the National Inpatient Sample *Nancy Hammond, Richard Dubinsky*

**IN5-1.009** Seizure Outcome and Memory Function after Multiple Hippocampal Transections *Emine Kahrman, Jonathan Miller, Robert Macinuas, Christopher Bailey, Philip Fastenau, Tanvir Syed, Shahram Amina, Adriana Tanner, Kristina Karanec, Hans Luders, Mohamad Koubeissi*

**IN5-1.010** Low Frequency Electrical Stimulation of White Matter Tracts in Intractable Mesial Temporal Lobe Epilepsy *Mohamad Koubeissi, Dominique Durand, Emine Kahrman, Tanvir Syed, Jonathan Miller, Hans Luders*

**Data Blitz Session\* / 5:00 p.m. – 5:30 p.m.**

**5:00 p.m.** **IN5-2.001** Reduced Serotonin Transporter Promoter Activity in Mesial Temporal Sclerosis and Temporal Lobe Epilepsy *William Theodore, Irene Dustin, Omar Khan, Coilin Hodgkinson, Longina Akhtar, David Goldman*

**5:05 p.m.** **IN5-2.002** The Nexus of Traumatic Brain Injury and Epilepsy in Veterans from Afghanistan and Iraq *Mary Jo Pugh, Megan Amuan*

**5:10 p.m.** **IN5-2.003** Fetal Antiepileptic Drug and Folate Exposure: Cognitive Outcomes at Age 6 Years *Kimford Meador, Gus Baker, Nancy Browning, Morris Cohen, Rebecca Brombley, Jill Clayton-Smith, Laura Kalayjian, Andres Kanner, Joyce Liporace, Page Pennell, Michael Privitera, David Loring*

**5:15 p.m.** **IN5-2.004** Quality of Life Outcomes in Adolescents with Childhood-Onset Epilepsy in Remission *Christine Baca, Barbara Vickrey, Stefanie Vassar, Anne Berg*

**5:20 p.m.** **IN5-2.005** Recognition and Treatment of Prolonged Febrile Seizures; Results from the FEBSTAT Study *Syndi Seinfeld, John Pellock, Shlomo Shinnar, Dale Hesdorffer, Ruth Shinnar, Kathryn O'Hara, Douglas Nordli, L. Frank, William Gallentine, Solomon Moshe, Xiaoyan Deng, Shumei Sun*

**Panel Discussion / 5:30 p.m. – 6:00 p.m.**

\*Speakers and titles are subject to change



## **MD Integrated Neuroscience Session: Plasticity in Basal Ganglia Therapy**

Coordinators: John Nutt, MD, FAAN and Christopher Goetz, MD, FAAN



The Movement Disorder Society

### Invited Speaker Session\* / 2:00 p.m. – 4:00 p.m.

- 2:00 p.m. – 2:15 p.m.** Introduction *John Nutt, MD*
- 2:15 p.m. – 2:40 p.m.** Adaptive Mechanisms Underlying the Short-, Long- and Ultra-long Duration Responses to Levodopa in Parkinson's Disease *Un Jung Kang, MD, FAAN*
- 2:40 p.m. – 3:05 p.m.** Mechanisms of Neuroplasticity Induced by Exercise in Parkinson's Disease and its Animal Models *Giselle Petzinger, MD*
- 3:05 p.m. – 3:30 p.m.** Augmentation in Restless Leg Syndrome: Mechanisms *Walter Paulus, MD*
- 3:30 p.m. – 3:55 p.m.** What Mechanisms Can Explain the Delayed Response to DBS in Dystonia? *Andres M. Lozano, MD*
- 3:55 p.m. – 4:00 p.m.** Questions and Answers *Faculty*

### Poster Rounds\* / 4:00 p.m. – 5:00 p.m.

- IN6-1.001** Neural Plasticity of Brain Motor Networks in Professional Fencers Studied with Functional MRI *Laura Parisi, Maria Rocca, Letizia Leocani, Roberto Gatti, Carlotta Castellani, Monica Rossi, Andrea Falini, Giancarlo Comi, Massimo Filippi*
- IN6-1.002** Effects of Bilateral Subthalamic Nucleus Deep Brain Stimulation on Impulse Control and Repetitive Behavior Disorders in Parkinson's Disease: The Results of 89 Patients *Tae Jung Kim, Beom Jeon*
- IN6-1.003** Dopamine Dysregulation in a Mouse Model of Paroxysmal Non-Kinesigenic Dyskinesia *Hsien-yang Lee, Emmanuel Pothos, Ellen J. Hess, Ying-Hui Fu, Robert Edwards, Louis Ptacek*
- IN6-1.004** Effect of Exercise on the Clinical Progression of Parkinson Disease *Pauline Gou, Sylvain Chouinard, Nicolas Jodoin, Sabrina Diab, Michel Panisset*
- IN6-1.005** Investigating the Neurophysiological Effects of Direct Current Stimulation *Joaquin Rojas, Roy Hamilton, Christopher Luminais, Steven Siegel*
- IN6-1.006** Differences in Connectivity among the Basal Ganglia, Cerebellum, and Supplementary Motor Area in Parkinson's Disease and Healthy Controls during Predictive Motor Timing *Martin Bares, Ivica Husarova, Michal Mikl, Ovidiu Lungu, Radek Marecek, Jiri Vanicek*
- IN6-1.007** Examination of Functional Connectivity Networks in Traumatic Brain Injury *Sagari Bette, John Liaghat, Carlos Marquez De La Plata, Ramon Diaz-Arrastia*
- IN6-1.008** Ex-Vivo Gene Therapy Approach for Continuous Delivery of BDNF and Its Potential Use for Neurological Disorders *Andrew Gomez-Vargas, Gonzalo Hortelano, Michel Rathbone*
- IN6-1.009** Effect of Botulinum Toxin Therapy on the Sensorimotor Feedback Loop in Cervical Dystonia *Naganand Sripathi, Kavita Grover, Christos Sidiropoulos, Susan Bowyer*
- IN6-1.010** Cerebellar Metabolic Alterations in Parkinson's Disease *Lidiane Campos, Ricardo Landim, Thays Meneli, Gabriela Castellano, Augusto Celso Amato Filho, Luiza Piovesana, Fernando Cendes, Anelyssa D'Abreu*

### Data Blitz Session\* / 5:00 p.m. – 5:30 p.m.

- |   |  |  |  |  |
|---|--|--|--|--|
| <p><b>5:00 p.m.</b> <b>IN6-2.001</b><br/>Why Does Bilateral Subthalamic Stimulation Induced Cognitive Decline in Patients with Parkinson's Disease? <i>Marie-Laure Welter, Virginie Czerniecki, Michael Schupbach, Sara Fernandez-Vidal, Carine Karachi, Soledad Navarro, Philippe Comu, Bernard Pidoux, Luc Mallet, Didier Dormont, Marie Vidailhet, David Grabli, Anne-Marie Bonnet, Hayat Belaid, Jean-Luc Houeto, Eric Bardinet, Jerome Yelnik, Yves Agid</i></p> | <p><b>5:05 p.m.</b> <b>IN6-2.002</b><br/>Functional Reorganization in Sensorimotor Cortex Is a Compensatory Mechanism in Early Parkinson's Disease: A Six Months Follow-Up Study <i>Maja Kojovic, Panagiotis Kassavetis, Matteo Bologna, Alfredo Berardelli, John Rothwell, Mark Edwards, Kailash Bhatia</i></p> | <p><b>5:10 p.m.</b> <b>IN6-2.003</b><br/>Pharmacological Dissociation of Periodic Leg Movements from Cortical Arousals in Restless Legs Syndrome <i>Mauro Manconi, Raffaele Ferri, Marco Zucconi, Claudio Bassetti, Stephany Fulda, Luigi Ferini-Strambi</i></p> | <p><b>5:15 p.m.</b> <b>IN6-2.004</b><br/>Aerobic Fitness, Cognition, and Brain Networks in Parkinson's Disease <i>Ergun Uc, Vincent Magnotta, Kevin Doerschug, Sonya Mehta, Teri Thomsen, Joel Kline, Matthew Rizzo, Thomas Grabowski, Joel Bruss, Sara Newman, Justin Nicol, Steven Anderson, Jeffrey Dawson, Arthur Kramer, Warren Darling</i></p> | <p><b>5:20 p.m.</b> <b>IN6-2.005</b><br/>24 Months of Exercise Improves the Motor Symptoms in Parkinson's Disease <i>Daniel Corcos, Julie Robichaud, Fabian David, David Vaillancourt, Cynthia Poon, Miriam Rafferty, Cynthia Comella, Wendy Kohrt, Sue Leurgans</i></p> |
|---|--|--|--|--|

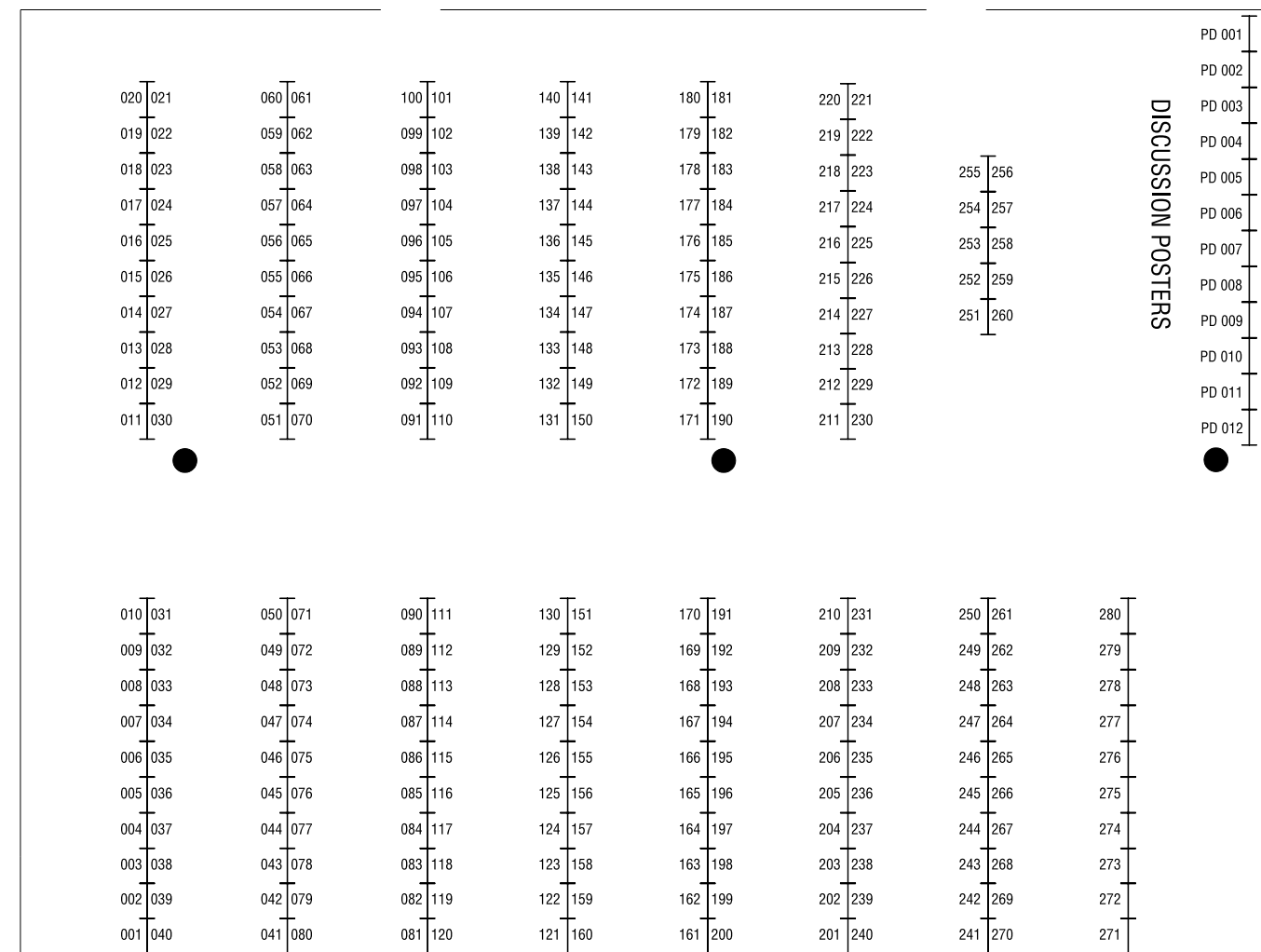
### Panel Discussion / Debate / 5:30 p.m. – 6:00 p.m.

Neuroplasticity May Aid or Hinder Reaching Desired Therapeutic Goals:  
How can Neuroplasticity Be Manipulated to Avoid Complications and to Enhance Beneficial Effects of Interventions?

### Platform Session / 11:30 a.m. – 12:00 p.m.

\*Speakers and titles are subject to change

# Poster Session Floor Plan



## Monday, April 23

### Poster Session I

2:00 p.m.-6:30 p.m.

5:00 p.m.-6:30 p.m.\*

## Tuesday, April 24

### Poster Session II

7:30 a.m.-12:00 p.m.

7:30 a.m.-9:00 a.m.\*

### Poster Session III

2:00 p.m.-6:30 p.m.

5:00 p.m.-6:30 p.m.\*

## Wednesday, April 25

### Poster Session IV

7:30 a.m.-12:00 p.m.

7:30 a.m.-9:00 a.m.\*

### NEW TIME

### Poster Session V

2:00 p.m.-7:00 p.m.

5:30 p.m.-7:00 p.m.\*

## Thursday, April 26

### Poster Session VI

7:30 a.m.-12:00 p.m.

7:30 a.m.-9:00 a.m.\*

### Poster Session VII

2:00 p.m.-6:30 p.m.

5:00 p.m.-6:30 p.m.\*

**NEW for 2012: all poster board sizes are 4 feet high by 6 feet wide**

\*Authors stand by posters

## Poster Discussion Session: Aging and Dementia: Implementation of New Criteria

**PD1.001** Inter-Rater Reliability of the New Criteria for Behavioral Variant Frontotemporal Dementia *Amanda LaMarre, Katya Rascovsky, Alan Bostrom, Pamian Toofanian, Sarah Wilkins, Katherine Giles, Sharon Sha, David Perry, Carmela Tartaglia, Gail Kang, Douglas Galasko, David Salmon, Melissa Lehmer, Sarah Farias, Bemeet Kaur, John Olichney, Lovingly Quitania Park, Mario Mendez, Po Tsai, Edmond Teng, Bruce Miller, Joel Kramer*

**PD1.002** Baseline CSF Amyloid and Tau Are Associated with Localized Hippocampus Change Independent of Total Hippocampus Volume *Owen Carmichael, Jing Xie, Baljeet Singh, Evan Fletcher, Charles DeCarli*

**PD1.003** Sequencing of CSF a $\beta$  and tau, Brain Structure and Function, and Cognition in Alzheimer's Disease *Dan Mungas, Richard Jones, Doug Tommet*

**PD1.004** Comparison of Amyloid PET and CSF Biomarkers in the Evaluation of Dementia *Gil Rabinovici, William Jagust, Pia Ghosh, Cindee Madison, Anna Karydas, Adam Boxer, John Trojanowski, Bruce Miller, Leslie Shaw, Howard Rosen*

**PD1.005** Beta Amyloid, Tau, Neuroimaging, and Cognition: Sequence Modeling of Biomarkers for Alzheimer's Disease *S. Duke Han, Jonathan Gruhl, Laurel Beckett, Hiroko Dodge, Nikki Stricker, Sarah Farias, Dan Mungas*

**PD1.006** Heterogeneous Amyloid Profiles in Highly Selected Prodromal Alzheimer Patients *Laure Saint-Aubert, Hélène Mirabel, Céline Vervueren, Patrice Péran, Pierre Payoux, Michele Puel, Emmanuel Barbeau, Francois Chollet, Jeremie Pariente*

**PD1.007** Application of the New Research Criteria for AD and Validation of a Hippocampal Memory Test Using PET-Amyloid Imaging *Leonardo de Souza, Fabian Corlier, Marie-Odile Habert, Foudil Lamari, Valerie Hahn-Barma, Renaud Maroy, Bruno Dubois, Michel Bottlaender, Marie Sarazin*

**PD1.008** A Multimodal Statistical Model for Predicting Future Decline in Memory and Executive Function amongst Subjects from the ADNI *Corinna Bauer, Howard Cabral, Ronald Killiany*

**PD1.009** Evidence in Support of the AD Biomarker Dynamic Model from a Memory Clinic Naturalistic Series of Patients with Mild Cognitive Impairment *Samantha Galluzzi, Cristina Geroldi, Giovanni Amicucci, Luisella Bocchio-Chiavetto, Matteo Bonetti, Maria Cotelli, Massimo Gennarelli, Roberta Ghidoni, Barbara Paghera, Orazio Zanetti, Giovanni Frisoni*

**PD1.010** Accuracy of Community-Acquired P.E.T. Scans in the Diagnosis of Dementia *Sheena Shipley, Benzi Kluger, Christopher Filley*

## Stroke Epidemiology

**PD1.001** Pre-Existing Statin Therapy Reduces Early Mortality in Patients with Acute Ischemic Stroke. Data from the Stroke Registry in the German Federal State of Schleswig-Holstein (QuGSS2) *Mohamed Al-Khaled, Christine Matthis, Jürgen Eggers*

**PD1.002** Taming the Burgeoning Stroke Epidemic in Africa: Stroke Quadrangle to the Rescue *Mayowa Owolabi*

**PD1.003** Metabolic Syndrome and Ischemic Stroke in Young: A Gender Preponderance? *Margaret Pusateri, Kari Moore, Kerri Rimmel, Wei Liu, Alex Abou-Chebl, Vincent Truong, Anand Vaishnav*

**PD1.004** Long-term Survival among Survivors of Stroke and Myocardial Infarction in the Third National Health and Nutrition Examination Survey Mortality Follow-Up Study *Haralabos Zacharatos, Muhammad Suri, Adnan Qureshi*

**PD1.005** National Estimates of Down Syndrome Prevalence in Patients with Moyamoya Disease *Hunar Kainth, Daraspreet Kainth, Saqib Chaudhry, M. Fareed Suri, Adnan Qureshi*

**PD1.006** Do Black Women with Acute Ischemic Stroke Have More Severe Strokes with Worse Outcomes? *Amelia Boehme, Erica Jones, James Siegler, Karen Albright, Sheryl Martin-Schild*

**PD1.007** Stroke Literacy, Stroke Behavior and Stroke Proficiency in a South Florida Population *John Morren, Efrain Salgado*

**PD1.008** Assessment of Stroke Risk Factors in Young Adults at Different Ages: A One-Year Case-Control Study *Fawzi Babbain, Mohannad Al Hamrany, Adel Al Hazzani, Ebtadam Al Shehri, Basma Al Ghamdi, Eman Al Amer, Manal Al Jabri, Nayef Ali, Muthusamy Velmurugan, Harsha Bhatia*

**PD1.009** Stroke after Vaccination in United States. A Report from the CDC/FDA Vaccine Adverse Event Reporting System. [1990–2010] *Zaid Al Qudah, Wael Abukwaik, Nizar Souayah*

## Clinical Features and Complications of Acute Stroke

**PD1.010** Unusual Association of Autoimmune Myopathy and Acute Hemorrhagic Leukoencephalitis *Iftexhar Ahmed, Anjushree Kumar*

**PD1.011** Evolution of Acute Lacunar Infarcts: Factors Predicting Progression to White Matter Hyperintensity *Andrew Fong, Ivane Chew, Nagaendran Kandiah*

**PD1.012** Clinicoradiological Study of Uncrossed Cortico-Hypoglossal Tract Damages in Patients with Pontine Infarction *Tetsuhito Kiyozuka, Ken Ikeda, Joe Aoyagi, Takehisa Hirayama, Yuichi Ishikawa, Osamu Kano, Kiyokazu Kawabe, Yasuo Iwasaki*

**PD1.013** Using Pimondazole Delineated Penumbra To Improve Translational Research on Acute Stroke Neuroprotection *Fen-Lei Chang, Benecia Hong-Goka*

**PD1.014** Probing the Relationship between Stroke Location and Outcome Using Voxel-Based Lesion Symptom Mapping *Claude Steriade, Maiya Geddes, Kelvin Mok, Lois Finch, Nancy Mayo, Lesley Fellows*

**PD1.015** 24-Hour ICH Score Is a Better Predictor of Mortality Than Admission ICH Score *Aimee Aysenne, Tiffany Mathias, Amelia Boehme, Tiffany Chang, Karen Albright, T. Beasley, Sheryl Martin-Schild*

**PD1.016** BoNT-Related Changes of Cortical Activity in Patients Suffering from Severe Hand Paralysis and Arm Spasticity Following Ischemic Stroke *Petr Hlustik, Tomas Veverka, Zuzana Tomasova, Pavel Otruba, Michal Kral, Zbynek Tudos, Roman Herzig, Petr Kanovsky*

**PD1.017** Association of Markers for Urinary Tract Infection with Neurologic Impairment and Function Following Stroke *Kunal Desai, Mery Elashvili, Michael Reding*

**PD1.018** Using Nature's Collaterals: Contralateral Access for Application of Tissue Plasminogen Activator in the Setting of Acute Ischemic Stroke *Theresa Williamson, Joseph Schindler, Ketan Bulsara*

**PD1.019** Gabapentin in the Treatment of Patients with Neuropathic Pain after Stroke *Yury Bykov*

## Laboratory Insights into Cerebrovascular Disease

**PD1.020** Initial Mean Corpuscular Hemoglobin Concentration Is Stroke Subtype Dependent and Correlates with Stroke Severity and Outcome *David Turkel-Parrella, Mohammad Moussavi, Daniel Korya, Usama Siddique, Mohammad Ibrahim, Martin Gizzi, Jawad Kirmani*

**PD1.021** A Case of Retinal Vasculopathy and Cerebral Leukodystrophy with Predominantly Central Nervous System Manifestations *Korak Sarkar, Christopher Way, Piero Verro*

**PD1.022** Bilateral Cervical-Artery Dissection Associated with Léri-Weill Dyschondrosteosis. A Case Report and Literature Review *Anne-Laure Bonnet, Julien Cogez, Mathieu Bataille, Gilles Defer, Fausto Viader*

**PD1.023** Classic Prevalence and Variation of Reduced CYP219 Metabolism in Clopidogrel Treated Stroke and TIA Patients and Associated Rates of Recurrent Vascular Events *Ilana Spokovny, Charlene Chen, Christine Wong, Jack Rose, David Tong, Nobl Barazangi*

**PD1.024** Time-Dependent Biphasic Echogenicity and Histological Correlates of Experimental Blood Clots. A Serial Ultrasound Study *Masaki Watanabe, Shahram Majidi, Saqib Chaudhry, Adnan Qureshi*

**PD1.025** Relevance of Endothelial Nitric Oxide Synthase, Elastin and Endoglin Genetic Variants in Familial Intracranial Aneurysm *Michele Gregório, Marcela Augusta Pinhel, Greiciane Maria Florim, Gisele Sousa, Marcelo Nakazone, Denise Martins, Samia Silva, Ariela Crestani, Marcio Luiz Santos, Jose Roberto Ferraz Filho, Luis Felipe Lauletta, Lucas Madureira, Doroteia Souza, Waldir Tognola*

## Poster Session I

**P01.026** Increased Platelet Count and Lymphocyte-Platelet Complex Formation in Patients with Recently Symptomatic Versus Asymptomatic Carotid Stenosis: Results from the Platelets and Carotid Stenosis (PACS) Study *Justin Kinsella, Oliver Tobin, Sean Tierney, T. Martin Feeley, Bridget Egan, D. Ronan Collins, Tara Coughlan, Desmond O'Neill, Joseph Harbison, Colin Doherty, Prakash Madhavan, Dermot Moore, Sean O'Neill, Raymond Murphy, George Hamilton, Dominick McCabe*

**P01.027** Asymmetric Dimethylarginine Protects Neurons from Oxygen Glucose Deprivation Insult by Downregulating Connexin-36 *Shufen Chen, Qiang Dong*

**P01.028** Ibudilast Inhibit Th17 Differentiation *Kiyokazu Kawabe, Yasuhiro Yoshii, Osamu Kano, Ken Ikeda, Yasuo Iwasaki*

**P01.029** Changes in Extracellular Potassium Concentrations within the Physiological Range Affect Extracellular Adenosine Levels and Dynamics in Astrocytic Cultures *Tobias Kulik, Maiken Nedergaard, Richard Winn*

### Ischemic Stroke and its Complications

**P01.030** Profound Gastroparesis after Bilateral Posterior Inferior Cerebellar Artery Territory Infarcts *Jeremy Liff, Daniel Labovitz, Matthew Robbins*

**P01.031** Diagnosis of Transient Ischemic Attack Varies by Neurologist *Deepa Bhupali, Huma Sheikh, Daniel Labovitz*

**P01.032** Standardized Reporting Is Needed To Describe Results of Carotid Artery Imaging *Eric Cheng, Salomeh Keyhani, Susan Ofner, Linda Williams, Dawn Bravata*

**P01.033** Pathophysiology of Stroke-Like Episodes in MELAS: A Possible Role of Neuron-Astrocyte Uncoupling in Cellular Damage during Synaptic Activation under Primary Oxidative Phosphorylation Defect *Takahiro Iizuka, Junichi Hamada, Fumihiko Sakai*

**P01.034** Comparing Outcomes of Transferred Versus Direct-Admit Ischemic Stroke Patients at a Large Comprehensive Stroke Center *Nobl Barazangi, David Grosvenor, Ann Bedenk, Jack Rose, David Tong*

**P01.035** Acute Cerebrovascular Disease in Pregnancy and Puerperium: Description of Cases from a Mexican Multicenter Registry (RENAMEVASC) *Erwin Chiquete, Fernando Flores, Alejandro Florez, Irving Salas, Isael Reyes-Melo, Jorge Villarreal-Careaga, Luis Murillo-Bonilla, Carolina León-Jiménez, Jose Ruiz-Sandoval, Alejandra González-Duarte, Guillermo García-Ramos, Carlos Cantu-Brito*

**P01.036** Isolated Hearing Loss as First Presentation of Anterior Inferior Cerebellar Artery Infarcts: A 3-Year Study *Ambihai Sivalingam, Chua Hoe Chin*

**P01.037** Pulmonary Embolism in Acute Ischemic Stroke: Effect on Short-Term Outcomes *Yogesh Moradiya, Keyur Patel, Daniel Miller*

**P01.038** Leukocytosis & Neutrophilia during Neurological Deterioration Negatively Impact Outcome in Acute Ischemic Stroke *Andre Kumar, Michael Gillette, James Siegler, Sheryl Martin-Schild, Karen Albright, Amelia Boehme*

**P01.039** Four-Year Changing Patterns in Prescription of Anti-Atherothrombotic Drugs in the Latin American Cohort of the Worldwide Reduction of Atherothrombosis for Continued Health (REACH) Registry *Erwin Chiquete, Jose Ruiz-Sandoval, Rainier Rodríguez-Balaguer, Lucía Magaña-Zamora, María Saniger-Alba, Alejandra González-Duarte, Guillermo García-Ramos, Alma Ramos, Philippe Gabriel Steg, Deepak Bhatt, Carlos Cantu-Brito*

### Epilepsy: Psychosocial

**P01.040** Episodic Medical Problems and Medical Illnesses with a Psychological Component in Patients with Psychogenic Nonepileptic Spells (PNES) Referred for Video-EEG Monitoring *Ronak Dixit, Alexandra Popescu, Anto Bagic, Genia Ghearing, Rick Hendrickson*

**P01.041** Psychopathology of Patients with Psychogenic Nonepileptic Spells (PNES) Referred for Video-EEG Monitoring *Alexandra Popescu, Ronak Dixit, Anto Bagic, Genia Ghearing, Rick Hendrickson*

**P01.042** The Relationship between Depression & Epilepsy: A Systematic Review and Meta-Analysis *Kirsten Fiest, Jonathan Dykeman, Scott Patten, Gilaad Kaplan, Samuel Wiebe, Nathalie Jette*

**P01.043** Are Menopausal Women with Epilepsy at Higher Risk for Mood Disorders and Suicide Risk? *Sima Patel, Nancy Foldvary-Schaefer, Lara Jehi, George Tesar, Adele Viguera*

**P01.044** Comparison of Cognitive Performance Using Community Interview Scale for Dementia among Siblings with Partial Epilepsy and Juvenile Myoclonic Epilepsy *Jose Giem-Lopez, Ildelfonso Rodriguez-Leyva, Jeronimo Rodriguez*

**P01.045** An Evidence-Based Checklist To Evaluate Neuropsychological Outcomes after Epilepsy Surgery *Marianne Hrabok, Jonathan Dykeman, Elisabeth Sherman, Samuel Wiebe*

**P01.046** Improvements in Quality of Life and Mood with Treatment of Medically Intractable Partial Epilepsy with a Responsive Neurostimulator *Brien Smith*

**P01.047** Video EEG Monitoring in Patients Referred from a Large Metropolitan County Jail *Paul Van Ness*

**P01.048** Social and Economic Impact of Epilepsy on Nigerian Women *Taofiki Sunmonu, Morenikeji Komolafe, Festus Fabusiva, Olusegun Afolabi, Edward Komolafe*

**P01.049** The Effects of Perceived Stigma on the Quality of Life of Adults with Epilepsy in an African Population *Michael Fawale*

### Epilepsy: Surgical Evaluation and Stimulation

**P01.050** Application of Quantitative Electroencephalography (QEEG) and Low Resolution Electro-Magnetic Tomography Analysis (LORETA) in General Neurology Practice for Detection and Localization of Epilepsy *Jaroslav Koberda*

**P01.051** Tolerability of Propofol in WADA Testing *Faisal Alsallom, Shobhit Sinha, Saeed Wahass, Aurora Benito, Fahmi AlSenani, Fawziah BaMogaddam, Khuram Siddiqui*

**P01.052** Long Term Outcomes in Patients with Preoperative Generalized Interictal Epileptiform Abnormalities Following Amygdalohippocampectomy *Brian Moseley, Shobhit Sinha, Fredric Meyer, W. Richard Marsh, Jeffrey Britton*

**P01.053** Corpus Callosotomy for Intractable Seizures in Adults *Emily Nakagawa, Fernando Vale, Ali Bozorg, Alfred Frontera, Selim Benbadis*

**P01.054** Satisfaction Is High between Patients Who Underwent Epilepsy Surgery Procedures *Renato Iachinski, Vanessa Rizelio, Cristiane Simao, Samantha Rocha, Murilo Meneses, Pedro Kowacs*

**P01.055** Calcified Neurocysticercus Lesions and Hippocampal Sclerosis: Potential Dual Pathology? *Kurupath Radhakrishnan, Chathurbhuj Rathore, Bejoy Thomas, Chandrasekharan Kesavadas*

**P01.056** Efficacy of Vagal Nerve Stimulation (VNS) after Multiple Subpial Transection (MST) for Extra-Temporal Seizure Foci *Arun Patil, Arun Antony, Richard Andrews*

**P01.057** Predictive Utility of EEG Decrement in Localization for Resective Surgery *Diego Tovar, Patricia McGoldrick, Harriet Kang, Saadi Ghatan, Steven Wolf*

**P01.058** 1H-MRS Imaging in Patients with Non-Lesional Insular Cortex Epilepsy Characterized by Depth Electrode Recordings *Steve Gibbs, Yan Boulanger, Guillaume Gilbert, Jean-Maxime Leroux, Alain Bouthillier, Dang Nguyen*

**P01.059** Comparing Postsurgical Outcome of Patients with Intractable Epilepsy between Temporal and Extratemporal Lesions *Korouh Gharagozi, Ali Amini Harandi, Guive Sharif, Sareh Shahmohammadi, Hossein Pakdaman*

### Epilepsy: General

**P01.060** The Cost of Implementing a Nationwide Program To Decrease the Epilepsy Treatment Gap in a Low Income, High Gap Country *Gretchen Birbeck, Elwyn Chomba, Masharip Atadzhonov, Edward Mbewe, Alan Haworth, Henry Kansembe*

**P01.061** Implementation of an Epilepsy Self Management Protocol in an Outpatient Neurology Clinic *Kimberly Cole, Imran Ali*

**P01.062** Characteristics of Users of the Epilepsy Community PatientsLikeMe.com: An Update *Svetlana Dimova, Christine De La Loge, Tracy Durgin, Knut Mueller, Candice Lofosse, Michael Massagli, Paul Wicks*

**P01.063** Patients with Bipolar Disorder and Epilepsy Associated: Does a Differential Neurologic Pattern Exist? *Teresa Torralva, Sergio Strejilevich, Maria Roca, Facundo Manes, Alfredo Thomson*

**P01.064** "Standard" Post-Ictal Treatment: Is There Such a Thing? *Thomas Foster, Ethan Gore, Juan Ochoa*

**P01.065** Implementing Epilepsy Quality Measures into a Pediatric Epilepsy Program *Diego Morita, Jason Olivea, Tracy Glauser*

**P01.066** Sickle Cell Crisis Presenting as Convulsive Status Epilepticus *Sanjeeva Onteddu, Archana Hinduja, Bashir Shihabuddin*

**P01.067** Lennox-Gastaut Syndrome Symptomatic to Hypothalamic Hamartoma: Evolution and Long-Term Outcome *Ming-Jai Liu, Sandipan Pati, Aman Deep, Yu-tze Ng*

**P01.068** Outcome of Treatment of Epilepsy in Adult Patients with Cerebral Palsy *Anupama Alareddy, Rammohan Sankaraneni, Sanjay Singh*

**P01.069** Hemispherectomy: A Viable Surgical Treatment for Adults with Intractable Epilepsy – A Report of 5 Cases *Courtney Schusse, Kris Smith, Cornelia Drees*

## Poster Session I

**P01.070** The Two Faces of Nonconvulsive Status Epilepticus. Analysis of Its Clinical Presentation *Analia Calle, Maria Gonzalez Toledo, Agustin Jauregui, Francisco Muñoz Giacomelli, Noelia Pontello, Maria Elena Fontela, Alfredo Thomson*

**Epilepsy: General Clinical**

**P01.071** Long Term Follow-Up of Centromedian Thalamic Nucleus Stimulation in Intractable Epilepsy *Arun Antony, Arun Patil*

**P01.072** Refractory Status Epilepticus: Is Surgery Effective? *Kushak Suchdev, Maysaa Basha, Marie Atkinson, Sandeep Mittal, Aashit Shah*

**P01.073** Oxidative Stress in Children with Intractable Epilepsy Reflected by Salivary Glands Anti-Oxidant Profile *Eli Shahar, Raphael Nagler*

**P01.074** Association between Anti-Epileptic Drugs-Induced Cutaneous Adverse Drug Reactions and HLA-A, -B, -DRB1 Alleles among Caucasian Patients *Hermann Stefan, Xintong Wu*

**P01.075** Long-Term Adjunctive Lacosamide in Patients with Focal Epilepsy: Seizure Severity and Quality of Life by Seizure Subtype and Responder Status *Simon Borghs, Svetlana Dimova, Joyce Cramer*

**P01.076** Lacosamide Has No Effect on the Enzymatic Activity of CYP3A4 *Willi Cavello, Erwin Summann, Josef Waitzinger*

**P01.077** Low Lacosamide Plasma Protein Binding in Lacosamide-Naive Patients *Nathan Fountain, Ludovic Staelens, Dominique Tytgat, G. David Rudd, Pascale Jacques, Willi Cavello*

**P01.078** Early and Sustained Response to Clobazam by Patients with Lennox-Gastaut Syndrome during the CONTAIN Trial *Yu-tze Ng, Joan Conry, Rebecca Drummond, Deborah Lee, Randall Owen*

**P01.079** Vigabatrin: A Novel Approach for Treatment of Super Refractory Status Epilepticus, a Case Study of 2 Patients *Jason McCormick, Nicholas Jonas, R. Ramsay, Vivek Sabharwal*

**P01.080** Favorable Response to Rituximab Supports an Autoimmune Mediated Pathogenesis in Parry-Romberg Syndrome *Lina Elbadawi, Tamika Burrus, Thomas Mason, Cheolsu Shin, Brian Moseley*

**Ageing and Dementia: Clinical Predictors**

**P01.081** Sleep Disruption and Risk of Preclinical Alzheimer Disease *Yo-el Ju, Stephen Duntley, Anne Fagan, John Morris, David Holtzman*

**P01.082** Frontal Release Signs Predict Decline in Subjects with Intact Cognition and Mild Cognitive Impairment *Ashlee Metcalf, Erin Abner, Frederick Schmitt, Richard Kryscio, Nancy Stiles, Gregory Jicha*

**P01.083** Risk of Dementia in Persons Who Refused To Participate in a Longitudinal Study of Cognitive Aging *David Knopman, Rosebud Roberts, Vernon Pankratz, Yonas Geda, Michelle Mielke, Ruth Cha, Bradley Boeve, Eric Tangalos, Walter Rocca, Ronald Petersen*

**P01.084** Clinical Dementia Rating Scores and Prediction of Mortality in Older Adults *Amy Sanders*

**P01.085** Predictors of Progression to Dementia in Non-Demented Patients with Memory Complaint *María Zurrú, Laura Brescacin, Claudia Alonzo, Marcelo Schapira, Gabriela Orzuza, Victor Villarroel, Fabiana Ortega, Silvana Brienza, Rocio Martinez, Luis Camera, Gabriel Waisman, Edgardo Cristiano*

**P01.086** Neurodegenerative Diseases (Alzheimer and Parkinson), but Not Vascular Dementia, Are Negatively Associated to Cancer as Cause of Death in the NEDICES Cohort *Felix Bermejo-Pareja, Julian Benito-Leon, Rocio Trincado, Saturio Vega, Alberto Villarejo Galende, Ignacio Posada Rodriguez, Maria Jose Medrano, Elan Louis*

**P01.087** Risk of Mortality in Nondemented Elderly with Mild Cognitive Impairment. Data from the NEDICES Cohort *Israel Contador, Felix Bermejo-Pareja, Rocio Trincado, Alvaro Sánchez-Ferro, Julian Benito-Leon*

**P01.088** Conversion from Mild Cognitive Impairment to Alzheimer's Disease in an Elderly Arab Population *Anne Afgin, Magdalena Massarwa, Edna Schechtman, Simon Israeli-Korn, Rosa Strugatsky, Amin Abuful, Lindsay Farrer, Robert Friedland, Rivka Inzelberg*

**P01.089** Predictors of Severity of Cognitive Impairment in Rural Patients Presenting to a Memory Clinic *Catherine Lacny, Andrew Kirk, Debra Morgan, Chandima Karunanayake*

**P01.090** Mild Cognitive Impairment: Analysis of Risk Factors for Conversion to Dementia in an Argentinian Population *Maria Fernandez, Maria Garcia Basalo, Juan Rojas, Flavia Turner, Erica Bogliotti, Flora Saenz Valiente, Irene Lascombes, Edgardo Cristiano, Angel Golimstok*

**Anterior Horn: Clinical Studies**

**P01.091** Platform for Clinical Trials Data Integration and Sharing as a Unique Industry, Academic, and Foundation Collaboration Resource in ALS Research *Alexander Sherman, Melanie Leitner, Ervin Sinani, Igor Katsovskiy, Merit Cudkowicz*

**P01.092** The National Amyotrophic Lateral Sclerosis (ALS) Registry: Overview and New Initiatives *Kevin Horton, Oleg Muravov*

**P01.093** Evidence for a Genetic Contribution to ALS Mortality in a Population-Based Resource *Summer Gibson, Karla Figueroa, Mark Bromberg, Stefan Pulst, Lisa Cannon-Albright*

**P01.094** Update on State and Metropolitan Area-Based ALS Surveillance *Wendy Kaye, Eric Sorenson, Heather Jordan, Brandi Tyler, Laurie Wagner, Oleg Muravov*

**P01.095** Comprehensive Research Synopsis and Systematic Meta-Analyses in ALS Genetics: The ALSGene Database *Christina Lill, Esther Meissner, Leif Schjeide, Brit-Maren Schjeide, Maria Liebsch, Johannes Roehr, Guy Rouleau, Orla Hardiman, Bryan Traynor, Leonard Van den Berg, Ammar Al-Chalabi, Lars Bertram*

**P01.096** Racial Differences in Motor Neuron Disease *Betul Gundogdu, Tawfiq Al-Lahham, Fred Kadlubar, Stacy Rudnicki*

**P01.097** Endogenous Female Reproductive Hormones and the Risk of Amyotrophic Lateral Sclerosis *Leonard Van den Berg, Sonja De Jong, Marc Huisman, Helenius Schelhaas, Anneke Van Der Kooij, Marianna De Visser, Jan Veldink*

**P01.098** Amyotrophic Lateral Sclerosis in a Large African American Population, Does It Differ from Caucasians? *Mohamed Kazamel, Gary Cutter, Peter King*

**P01.099** Survival in Amyotrophic Lateral Sclerosis Patients in Argentina *Mariela Bettini, Marcelo Rugiero, Hernan Gonorazky, Raul Rey, Edgardo Cristiano, Gabriel Rodriguez, Roberto Sica*

**P01.100** An ALS-FTD Patient Carrying a Double Pathogenetic Mutation of C9ORF72 and TARDBP: Case Report *Andrea Calvo, Giuseppe Borghero, Antonino Cannas, Maria Marrosu, Maria Murru, Gianluca Floris, Bryan Traynor, Alan Renton, Cristina Moglia, Antonio Canosa, Antonio Ilardi, Stefania Cammarosano, Maura Brunetti, Irene Ossola, Gabriella Restagno, Adriano Chio*

**P01.101** Gastrostomy Tube Placement by Endoscopy Versus Radiologic Methods in Patients with ALS: A Retrospective Review of Complications and Outcome *Jeffrey Allen, Michael Hall, Shawn Wallery, Senda Ajroud-Driss, Jennifer Armstrong, Caryn McManus, Tony Cook, Robert Sufit, Howard Chrisman, Lisa Wolfe, Teepu Siddique*

**P01.102** Predictors of 30 Day Mortality after Gastrostomy in Amyotrophic Lateral Sclerosis *Amy Tsou, Judith Long, Leo McCluskey, Lauren Elman, Jason Karlawish*

**P01.103** Percutaneous Endoscopic Gastostomy and Non Invasive Ventilation in Amyotrophic Lateral Sclerosis: Interest of a Combined Approach *Nicolas Vitello, Nathalie Guy Renouil, Annick Greil, Corinne Bouteloup, Sandrine Rouvet, Pierre Clavelou*

**P01.104** Timely Intervention of Non-Invasive Ventilation (NIV) To Treat Sleep-Ordered Breathing (SDB) Causing Respiratory Insufficiency (RI) in Amyotrophic Lateral Sclerosis (ALS) Patients Is Enhanced by Implementation of Home-Based Unattended Sleep Study (HBUSS): Results of the First Quarterly Audit at the Carolinas Neuromuscular/ALS-MDA Center *Urvi Desai, Velma Langford, Elena Bravver, Benjamin Brooks*

**P01.105** The Negative Impact of Neurobehavioral Dysfunction on ALS Outcome Is Due to the Reduced Efficacy of NIV and EN *Cristina Moglia, Antonio Ilardi, Stefania Cammarosano, Antonio Canosa, Enrica Bersano, Anna Montuschi, Andrea Calvo, Adriano Chio*

**P01.106** Development and Deployment of Performance Measures Based on American Academy of Neurology (AAN) Amyotrophic Lateral Sclerosis (ALS) Guidelines To Assess Provider Implementation, Patient Acceptance and Patient Adherence of Evidence-Based Recommendations at the Carolinas Neuromuscular/ALS-MDA Center: Accountability Assessment According to the Joint Commission (TJC) Disease Specific Certification (DSC) Protocol – The First Year *Benjamin Brooks, Nicole Williams, Elena Bravver, Urvi Desai, Amy Wright, Mohammed Sanjak, William Bockenek, Mindy Nichols, Priscilla Russo, Nicole Smith, Anne Blythe, Scott Lindblom, Thomas Pacicco, Jessica Smercina, Amber Ward, Velma Langford, Michael Fischer, Miffin O'Neill, Ann Henderson, Scott Holsten, Louise Frumkin, Kristy Walgren, Quincy Corey, Heather Oplinger, Marlow Price, Carrie Fortier*

**P01.107** Validation of the Six Minute Walk Test (6MWT) in Ambulatory Amyotrophic Lateral Sclerosis (ALS) Patients *Mohammed Sanjak, Velma Langford, Scott Holsten, Joshua Bockenek, Elena Bravver, Urvi Desai, William Bockenek, Nicole Williams, Priscilla Russo, Benjamin Brooks*

**P01.108** Brainstem and Spinal Motor Neuron Involvement with Optic Neurin Inclusions in a New Type of Familial Amyotrophic Lateral Sclerosis *Koji Fujita, Wataru Sako, Koji Maeda, Satoshi Goto, Yuishin Izumi, Gen Sobue, Ryuji Kaji*

**P01.109** Verbal Learning Abilities in ALS Patients *Maria Rosaria Barulli, Marianna Tursi, Rosanna Tortelli, Rosa Capozzo, Rosanna Cortese, Eustachio D'Errico, Antonio Leo, Isabella Simone, Giancarlo Logroscino*

## Poster Session I

**P01.110** Does Recognition of Facial Expression of Primary and Social Emotions in ALS Patients Interfere with Social Competence? *Cristina Moglia, Andrea Calvo, Antonio Ilardi, Antonio Canosa, Stefania Cammarosano, Enrica Bersano, Davide Bertuzzo, Umberto Manera, Anna Lo Presti, Federico Casale, Anna Montuschi, Adriano Chio*

### Neurologic Manifestations of Systemic Disease: Clinical

**P01.111** A Novel Splice Mutation and Neurological Phenotype in Tangier Disease *Ashish Anand, Smita Negi*

**P01.112** Relapsing Course of IgG4-Related Pachymeningitis *Kevin Shapiro, Riley Bove, Elgida Volpicelli, John Stone*

**P01.113** Clinical Significance of Amyloid Myopathy *Mohammad Alsharabati, Khalid Balawi, Du-Shin Jeong, Shin Oh*

**P01.114** Comparison of US and Non-US Patients with Familial Amyloid Polyneuropathy (FAP) and Familial Amyloid Cardiomyopathy (FAC) in THAOS – The Transthyretin Amyloidosis Outcomes Survey *Horacio Kaufmann, Mathew Maurer, Teresa Coelho, Violaine Plante-Bordeneuve, Claudio Rapezzi, Ole Suhr, THAOS Investigators*

**P01.115** Opsoclonus as a Manifestation of Hashimoto's Encephalopathy *Richard Salazar, Chandan Mehta, Naor Zaher, Daniel Miller*

**P01.116** Congenital Megaconial Myopathy Due to a Novel Defect in the Choline Kinase beta (CHKB) Gene *Purificacion Gutierrez Rios, Arun Asha Kalra, Jon Wilson, Kurenai Tanji, H. Akman, Estela Area, Eric Schon, Salvatore DiMauro*

**P01.117** Alice in Wonderland Syndrome: Somesthetic vs. Visual Perceptual Disturbance *John Lanska, Douglas Lanska*

**P01.118** A Case of Systemic Lupus Erythematosus (SLE) Presenting as an Acute Inflammatory Demyelinating Polyneuropathy (AIDP) with Progression to a Severe Axonal Neuropathy *Faria Amjad, Michael Sirdofsky*

**P01.119** Silk Road Diseases Masquerading as Tumor *Swapna Putta, Miguel Estevez*

**P01.120** Stroke Complicating Infective Endocarditis Treated with Thrombolysis: A Case Report and Review of the Literature *Wallace Brownlee, Neil Anderson, Venkatesh Krishnamurthy*

**P01.121** Reversible Third Nerve Paralysis and Blast-Like Cells in Cerebrospinal Fluid as Unusual Presentation of Neuroborreliosis *Mona Bahouth, Payam Mohassel, Carlos Pardo-Villamizar*

**P01.122** Ocular Syphilis: Staring Straight at You *Vince Faridani, Bonny Moore*

**P01.123** Peripheral and Autonomic Neuropathy Due to Hereditary Amyloidosis in a Young Man with Arsenic Toxicity *Stephanie Gardon, Allison Weathers, Madhu Soni*

**P01.124** Methionine Synthase Deficiency (cblG): A Rare Cause of Adult Onset Leukoencephalopathy with Reversible Neurological Deficit *Olivier Outterryck, Jerome De Seze, Tanya Stojkovic, Sophie Delalande, Arnaud Lacour, Brian Fowler, Patrick Vermersch*

**P01.125** Unusual Case of Intra-Arterial Doxorubicin Chemoembolization-Associated Posterior Reversible Encephalopathy Syndrome *Pritish Pawar, Ika Noviaawaty, Osama Zaidat*

**P01.126** Long Term Follow-Up of Clinical and Electromyoneurographical Abnormalities in Eight Croatian Patients with Triple A Syndrome *Nina Barisic, Miroslav Domic, Vesna Kusec, Katarina Stingl, Ivan Lehman, Branka Bunoza, Petra Grdan, Katrin Koehler, Angela Heubner*

**P01.127** Posterior Reversible Encephalopathy Syndrome in a Patient with Microscopic Polyangiitis *Mia Minen, Carl Gold, Neeraj Badjatia*

### Multiple Sclerosis: Clinical Trials: Clinical and MRI Outcomes

**P01.128** A Multicentric, Double Blind Randomized Clinical and MRI Study of High-Dose Oral vs Intravenous Methylprednisolone in Acute Relapses of Multiple Sclerosis *Cristina Ramo, Laia Grau, Pilar Giner, Lluís Ramio, Luis Brieua, Albert Saiz, Antonio Cano, Olga Carmona, Eva Martínez-Cáceres, Joan Costa*

**P01.129** Long-Term (7-Year) Data from a Phase 2 Extension Study of Fingolimod in Relapsing Multiple Sclerosis *Jack Antel, Xavier Montalban, Paul O'Connor, Ana de Vera, Malika Cremer, Nikolaos Sfikas, Giancarlo Comi, Ludwig Kappos*

**P01.130** Effect of BG-12 in Subgroups of Patients with Relapsing-Remitting Multiple Sclerosis: Findings from the DEFINE Study *Amit Bar-Or, Ralf Gold, Ludwig Kappos, Douglas Arnold, Gavin Giovannoni, Krzysztof Selmaj, John O'Gorman, Monica Stephan, Katherine Dawson*

**P01.131** Dose Titration Regimen Attenuates Bradyarrhythmic Events with BAF312 during Treatment Initiation *John DiMarco, Krzysztof Selmaj, Ludwig Kappos, Pierre Jordean, Boaz Mendzelevski, Joana Goncalves, Lixin Zhang Auberson*

**P01.132** Two-Year Relapse Rate in the TOP MS Study: Completer Cohort *Patricia Coyle, Howard Zwiibel, Bruce Cohen, Thomas Leist, Mark Tullman, Clyde Markowitz, Mary Hughes*

**P01.133** ADVANCE Phase 3 Study of PEGylated Interferon Beta-1a for Relapsing Multiple Sclerosis: Patient Baseline Characteristics *Peter Calabresi, Bernd Kieseier, Douglas Arnold, Laura Balcer, Alexey Boyko, Jean Pelletier, Ying Zhu, Aaron Deykin*

**P01.134** MRI Analyses in RRMS Patients with Highly Active Disease: Results from FREEDOMS and TRANSFORMS Phase 3 Studies *Ernst-Wilhelm Radue, Frederik Barkhof, Jeffrey Cohen, Frederick Holdbrook, Gordon Francis, Ludwig Kappos*

**P01.135** Fingolimod (Gilenya®) in Combination with an SSRI or SNRI Antidepressant in Multiple Sclerosis Patients with Mild to Moderate Depression: Design of a Phase IIIb Study (REGAIN) *Katrin Schuh, Matthias Meergans, Antonios Bayas*

**P01.136** Annualized Relapse Rate of First-Line Treatments for Multiple Sclerosis: A Meta-Analysis, Including Indirect Comparisons Versus Fingolimod *David Tyas, Neil Roskell, Evelina Zimovetz, Catherine Rycroft, Benjamin Eckert*

### Multiple Sclerosis: Clinical Research

**P01.137** The Impact of Gender on Recovery from Acute Optic Neuritis: Does Sex Matter? *Fiona Costello, William Hodge, Irene Pan, Jodie Burton, Jessie Trufyn*

**P01.138** Long-Term Evolution of "Benign" Multiple Sclerosis Patients in the London Ontario Database *Antonio Scalfari, Anneke Neuhaus, Martin Daumer, Paolo Muraro, George Ebers*

**P01.139** The Importance of CSF Oligoclonal Bands in the Diagnosis of Primary Progressive Multiple Sclerosis *Siobhan Kelly, Katie Kinsella, Marguerite Duggan, Christopher McGuigan, Niall Tubridy, Michael Hutchinson*

**P01.140** The Incidence of Clinically Isolated Syndrome Is Higher in African Americans and Whites Compared with Hispanics and Asians *Annette Langer-Gould, Sonu Brara, Brandon Beaver, Jian Zhang*

**P01.141** Different Patterns in Monthly Distribution of Clinical Relapses in Relapsing-Remitting Multiple Sclerosis between UK and Greece *Efthymia Gavala, Yiannis Zoukos, Ravi Dasari, Helen Willis, Julie Webster, Lampros Samartzis, Eva Bachlava, Thomas Thomaidis*

**P01.142** Multiple Sclerosis and Socioeconomic Status: What Happens in South America? *Noelia Pontello, Juan Racosta, Maria Gonzalez Toledo, Ezequiel Gleichgerrch, Facundo Manes, Vladimiro Sinay*

**P01.143** The Nationwide Prevalence of Multiple Sclerosis in Iran *Saeed Shahbeigi, Seyed Mohammad Fereshtenejad, Ghazal Jalilzadeh, Maliheh Heydari*

**P01.144** Development of Smartphone Technology To Monitor Disease Progression in Multiple Sclerosis *Sashank Prasad, Ravi Ramachandran, Charles Jennings*

**P01.145** Comparison of Demographic and Disease Characteristics in Patients with Multiple Sclerosis at an MS Clinic and on an Online Research Forum *Riley Bove, Elizabeth Secor, Timothy Vaughan, Paul Wicks, Bonnie Glanz, Howard Weiner, Tanuja Chitnis, Philip De Jager*

**P01.146** Influence of Sex Hormones on the Natural History of Multiple Sclerosis: A Case Study *Dimitrios Kitsos, Sotirios Tsiadras, Georgios Dervenoulas, Eleftherios Stamboulis, Konstantine Voumvourakis*

**P01.147** Venous Thrombosis in Multiple Sclerosis Patients after High Dose Intravenous Methylprednisolone. The Preventive Effect of Enoxaparin *Hossein Kalanie, Ali Amini Harandi, Shapoor Alidaei, Daryoosh Heidari*

### Multiple Sclerosis: Outcome Measures

**P01.148** The Effects of Exercise and Copaxone on Six Minute Walk Test in Persons with Multiple Sclerosis: A Pilot Study *Seema Khurana, Larry Brooks, Alexandria Beranger, Alessandra Dominguez, James Moore*

**P01.149** Somatosensory Evoked Potentials Can Diagnose Neurocompressive Insults in Multiple Sclerosis *Nesamet Mitiku, Angeli Mayadev, George Kraft*

**P01.150** Quantitative Motor Assessment (Q-Motor) in Multiple Sclerosis Patients and Healthy Controls *Elena Bohn, Stefan Bohlen, Christian Sass, Natalie Bechtel, Elena Adamou, Ralf Reilmann, Friedemann Paul, Caspar Pfueller*

**P01.151** Improvements in the Power of Detecting Treatment Effect in a Primary Progressive Multiple Sclerosis (PPMS) Clinical Trial with the Use of Composite Disability Outcome Endpoints *Jiameng Zhang, Emmanuelle Waubant, Gary Cutter, Jerry Wolinsky, Robert Glanzman*

**P01.152** The Disability Outcomes of Disease-Modifying Drugs in Multiple Sclerosis *Walter Hader*

**P01.153** Ocular and Cervical Vestibular Evoked Myogenic Potentials in Patients with Multiple Sclerosis *Tereza Gabelic, Magdalena Krbot, Velimir Isgum, Ivan Adamec, Mario Habek*

## Poster Session I

**P01.154** Retrospective Application of 2010 Revised McDonald MS Diagnostic Criteria to a Pediatric MS Cohort *Jayne Ness, Thitiwan Simasathien*

**P01.155** 2010 McDonald Criteria for Diagnosing Pediatric Multiple Sclerosis *Yair Sadaka, Leonard Verhey, Manohar Shroff, Helen Branson, Douglas Arnold, Stridar Narayanan, John Sled, Amit Bar-Or, Dessa Sadovnick, Melissa McGowan, Ruth Ann Marrie, Brenda Banwell*

**P01.156** Application of the McDonald 2010 Criteria for the Diagnosis of Multiple Sclerosis in an Argentinean Cohort of Patients with Clinically Isolated Syndromes *Liliana Patrucco, Juan Ignacio Rojas, Santiago Tizio, Edgardo Cristiano*

**P01.157** The Application of Pupillary Response to Sparse Multifocal Stimuli in Monitoring Multiple Sclerosis Patients *Teddy Maddess, Eman Ali, Andrew James, Cristian Voicu, Andrew Janke, Christian Lueck*

### Multiple Sclerosis: OCT and Other Visual Outcome Measures

**P01.158** Visual Function and Optical Coherence Tomography in Pediatric Demyelinating Diseases *Amy Waldman, Girish Hiremath, Robert Avery, Kristin Galetta, Amy Conger, Michael Loguidice, Lauren Talman, Michael Shumski, James Wilson, Elliot Frohman, Peter Calabresi, Laura Balcer*

**P01.159** Structural and Functional Measures of the Optic Nerve, Determining the Best Correlate for Visual Acuity *Lindsay Horton, Amy Conger, Darrel Conger, Gina Remington, Teresa Frohman, Elliot Frohman, Benjamin Greenberg*

**P01.160** Gender and Retinal Nerve Fiber Layer Values in MS Patients *Jessie Trufyn, Jodie Burton, Fiona Costello*

**P01.161** Contribution of Trans-Synaptic Neuronal Degeneration to Retinal Atrophy in MS *Iñigo Gabilondo, Albert Saiz, Eloy Martínez, Elena Fraga, Sara Lufriu, Santiago Ortiz, Joan Berenguer, Elena Hernández, María Sepúlveda, Yolanda Blanco, Francesc Graus, Bernardo Sánchez-Dalmau, Pablo Villoslada*

**P01.162** The Utility of Multimodal Evoked Potentials in Multiple Sclerosis Prognostication *Sudarshini Ramanathan, Karina Aivazian, Kerry Lenton, Therese Burke, Karen Storchenegger, Lavier Gomes, Con Yiannikas, Steve Vucic*

**P01.163** Macular Volume Swells in Multiple Sclerosis Patients on Fingolimod Using SD-OCT *Rachel Nolan, Jeffrey Gelfand, Ari Green*

**P01.164** Using MRI and Optical Coherence Tomography To Dissect Disease Heterogeneity in Early Relapsing Multiple Sclerosis *Kim Young, Liza Winkler, Friederike Lintze, Jens Fiehler, Matilde Inglese, Roland Martin, Sven Schippling*

**P01.165** Characterizing Disability in Early Onset MS Patients: Correlation of Clinical Parameters with Retinal Nerve Fiber Layer Thickness *De-Hyung Lee, Robert Laemmer, Anne Waschbisch, Alexandra Laemmer, Regina Trollmann, Ralf Linker*

**P01.166** Raman Spectroscopy Analysis of the Retina Reveals Changes in Glutamate, N-Acetyl-Aspartate, NADH and Phosphatidylcholine in Neuroinflammation *Pablo Villoslada, Monica Marro, Alice Taubes, Beatriz Moreno, Dimitri Petrov*

**P01.167** Spatial Profile Analysis Detects Early Retinal Ganglion Cell Layer Reduction in Patients with Clinically Isolated Syndrome *Timm Oberwahrenbrock, Marius Ringelstein, Simon Jenschke, Sven Schippling, Katrin Deuschle, Judith Bellmann-Strobl, Hans Hartung, Klemens Ruprecht, Friedemann Paul, Orhan Aktas, Alexander Brandt*

### Neural Repair/Rehabilitation

**P01.168** Disparate Recovery Trajectories among First-Time Ischemic Stroke Patients *Brandon Minzer, Adam Schweber, Ronald Lazar, Randolph Marshall*

**P01.169** Inpatient Stroke Rehabilitation Biomarkers Associated with Complications Requiring Transfer Back to an Acute-Care Hospital *Carolin Dohle, Jessica Elder, Mery Elashvili, Mike Reding*

**P01.170** Neural Plasticity of Brain Motor Networks in Professional Fencers Studied with Functional MRI *Laura Parisi, Maria Rocca, Letizia Leocani, Roberto Gatti, Carlotta Castellani, Monica Rossi, Andrea Falini, Giancarlo Comi, Massimo Filippi*

**P01.171** The Effects of 30Hz Theta Burst Transcranial Magnetic Stimulation *Donald Gilbert, Nasrin Shahana, David Huddleston, Steve Wu*

**P01.172** Modulatory Effects of Somatosensory Tasks on Pain Thresholds and Cortical Excitability *Magdalena Volz, Vanessa Suarez-Contreras, Mariana Mendonca, Fernando Santos Pinheiro, Lotfi Merabet, Felipe Fregni*

**P01.173** Does Net Gain during Acute Stroke Recovery Exceed Daily Variability? *Ronald Lazar, Andrea Lendaris, Lauren Dunn, Adam Schweber, Randolph Marshall*

**P01.174** Retrospective Analysis Suggests BIT May Sensitive Diagnose "Where" Perceptual-Attentional Neglect, in Stroke Survivors Having Less Disability *Amit Chaudhari, Peii Chen, Kelly Goedert, A. Barrett*

**P01.175** WITHDRAWN

**P01.176** Connecting with Kinect® To Improve Motor and Gait Function in Parkinson Disease *Maria Alvarez, Patrick Grogan*

**P01.177** Electro Stimulation of Paretic Muscles and Chinese Acupuncture Are for the Rehabilitation in Patients with Stroke *Arsen Aslanyan*

**P01.178** Mild Traumatic Brain Injury from Primary Blast vs. Blunt Forces: Post-Concussion Consequences and Functional Neuroimaging *Mario Mendez, Eliot Licht, Gholam Berenji, Dominique Peppers*

**P01.179** Risk Factors for Development of Post-Concussive Headaches in a Pediatric TBI Subspecialty Clinic Population *Meeryo Choe, Hannah Valino, David McArthur, Christopher Giza*

**P01.180** Anhedonia in Combat Veterans with Penetrating Head Injury *Jeffrey Lewis, Eric Wassemann*

**P01.181** Examination of Functional Connectivity Networks in Traumatic Brain Injury *Sagari Bette, John Liaghat, Carlos Marquez De La Plata, Ramon Diaz-Arrastia*

**P01.182** Natural History of Headache in the First Year after Mild Traumatic Brain Injury *Sylvia Lucas, Jeanne Hoffman, Kathleen Bell, Sureyya Dikmen*

**P01.183** Persistent Post-Concussion Symptoms, Multi-Morbidity Burden, Quality of Life, Global Physical Health, and Work Performance after Mild Head Injury: Two-Year Rehabilitative Outcome *Armando Miciano*

**P01.184** Detection of Clinically Occult Sub-Concussive Injury in Amateur Boxers Using Objective Computerized Cognitive Assessment *David Darby, Paul McCrory, Jeffrey Kutcher, Robert Pietrzak, Helen Clausen, Kevin McAward, James Moriarity*

**P01.185** Sports and Recreation Brain Injuries in a Pediatric Specialty Traumatic Brain Injury Clinic *Hannah Valino, David McArthur, Sue Yudovin, Christopher Giza*

**P01.186** Goal-Oriented Attention Regulation Training in Veterans with Chronic TBI *Tatjana Novakovic-Agopian, Anthony Chen, Gary Abrams, Annemarie Rossi, Deborah Binder, Jim Muir, Michelle Murphy, Gerald Carlin, Richard Fitzsimmons, Mark D'Esposito*

**P01.187** Severe TBI Outcome Prediction: Usefulness of FIM Scores during Inpatient Rehabilitation *David Kushner, Douglas Johnson-Greene*

### Clinical Neurophysiology

**P01.188** Intrinsic Functional Connectivity with the Subgenual Cingulate Predicts Clinical Efficacy of TMS Targets for Depression *Michael Fox, Alvaro Pascual-Leone*

**P01.189** Electrode Contact Location Correlates with the Location of Tic-Related Neuronal Activity in the Globus Pallidus Internus in Patients with Tics *Ping Zhuang, Mark Hallett, Sheng Dong, Xiaohua Zhang, Yuqing Zhang, Jianyu Li, Yongjie Li*

**P01.190** Selective Modulation of the Motor Cortex Excitability during Listening of Known Melodic Sequences in Pianists *Arturo Nuara, Javier Gonzalez-Rosa, Francesca Spagnolo, Elisabetta Coppi, Mariangela Bianco, Laura Straffi, Laura Ferrari, Letizia Leocani, Giancarlo Comi, Raffaella Chieffo*

**P01.191** Atypical Auditory Potentials during a Delayed Naming Paradigm in Adults Who Stutter *Jeffrey Mock, Anne Foundas, Edward Golob*

**P01.192** Evoked Potentials Reflecting the Rule State during the Wisconsin Card Sort *Danielle Farrar, Peter Bergethon*

**P01.193** Loss of Differentiation in Event-Related Potentials (ERPs) To Reflect a Feature-Based Object Memory Retrieval Process in Patients with Mild Cognitive Impairment *Hsueh-Sheng Chiang, Raksha Anand Mudar, Elizabeth Kanter Bartz, Kristin Martin-Cook, Michael Kraut, John Hart*

**P01.194** Investigating the Neurophysiological Effects of Direct Current Stimulation *Joaquin Rojas, Roy Hamilton, Christopher Luminais, Steven Siegel*

**P01.195** Voxel-Based Morphometry Showing Acute Alteration in a Visual Paradigm *Dagny Holle, Steffen Naegel, Tim Hagenacker, Nina Theysohn, Hans-Christopher Diener, Zaza Katsarava, Mark Obermann*

**P01.196** Saccade-Related beta-Band Desynchronization in the Subthalamic Nucleus of Parkinson Disease Patients during Successful Antisaccades and Error Trials *Akihiro Yugeta, William Hutchison, Robert Chen*

**P01.197** Inpatient EMG Studies. Do They Help with Patient Care? *Gincy Samuel, Srikanth Muppidi, Gil Wolfe*

**P01.198** Phrenic Nerve Conduction Studies Are Enhanced by Simultaneous Visualization of the Diaphragm with Ultrasound *Nicholas Johnson, Erica Patrick, Marlene Downs, Vikram Dogra, Eric Logigian*

## Poster Session I

- P01.199** Value of the Exercise Compound Muscle Action Potential Study and Provocative Tests in Possible Periodic Paralysis *Araya Puwanant, Paul Twydell, James Cleland, Christopher Beck, Robert Griggs*
- P01.200** Early Electrodiagnostic Abnormalities in Guillain-Barré Syndrome *Jean-Baptiste Chanson, Jerome De Seze, Andoni Echaniz-Laguna*
- P01.201** Effect of Alpha-Lipoic Acid on Cutaneous-Silent-Period Parameters in Patients with Type 2 Diabetes Mellitus *Mehmet Yuçel, Oğuzhan Öz, Hakan Akgun, Abdullah Taslipinar, Cagdas Erdogan, Halit Yasar, Umit Ulas, Zeki Odabasi*
- P01.202** The Utility of Repetitive Nerve Stimulation and Single-Fiber Electromyography in Assessing Possible Myopathy *Phillip Mongiovi, Bakri Elsheikh, John Kissel, William Arnold*
- P01.203** Dissimilar Frequency of IVIG Side Effects in CIDP and Myasthenia Gravis Patients *Gretchen Ayer, Gary Badger, Michael Hehir, Waqar Waheed, Michelle Greer, Leslie Vaughan, Rup Tandan*
- P01.204** Characteristic EEG Rhythms with the Use of Ketamine in Patients with Status Epilepticus *Abdulradha Alqallaf, Natalya Shneyder, Tyson Burghardt, Aashit Shah, Maysaa Basha*
- Movement Disorders: Pathophysiology**
- P01.205** Combination of Positional Cloning and New Generation Sequencing Identifies 3 Novel Genes in Spastic Paraplegia Involved in Common Metabolic Pathways *Giovanni Stevanin, Christelle Tesson, Magdalena Nawara, Mustafa Salih, Maha Zaki, Emeline Mundwiler, Mohammed Al Balwi, Amir Boukhris, Ahmed Bouhouche, Elodie Martin, Salah Elmalik, Abdulrahman Alswaid, Fanny Mochel, Filippo Santorelli, Ali Benomar, Shatha Al Rasheed, Chokri Mhiri, Joseph Gleeson, Frédéric Darios, Alexandra Durr, Alexis Brice*
- P01.206** Mitochondrial Morpho-Functional Dysfunction in SPG31 Patients *Cyril Goizet, Giovanni Benard, Christel Depienne, Amir Boukhris, Guilhem Sole, Isabelle Coupry, Julie Plihood, Marie-Laure Martin-Négrier, Sylvie Forlani, Alexandra Durr, Alexis Brice, Didier Lacombe, Rodrigue Rossignol, Giovanni Stevanin*
- P01.207** Parkin-Associated Parkinsonism: Time for Genotype-Specific Counseling? *Anne Grunewald, Meike Kasten, Christine Klein*
- P01.208** A New Rat Model for Parkinson Disease *Michael Panneton, Vijaya Kumar, William Burke*
- P01.209** Altered SIRT4 Expression Is Associated with Lewy Body Pathology *Corneliu Luca, Susanna Garamszegi, Dalal Eldick, Carlos Singer, Deborah Mash*
- P01.210** Cerebellar Metabolic Alterations in Parkinson's Disease *Lidiane Campos, Ricardo Landim, Thays Meneli, Gabriela Castellano, Augusto Celso Amato Filho, Luiza Piovesana, Fernando Cendes, Anelyssa D'Abreu*
- P01.211** Clinical Features of 13 Patients with Parkinson's Disease Due to an Autosomal Dominant Mutation in the Vacuolar Protein Sorting-Associated Protein 35 (VPS35) *Walter Struhal, Stefan Presslauer, Sabine Spielberger, Stephanie Hoedl, Susanne Schmidegg, Elisabeth Wolf, Klaus Seppi, Alexander Zimprich, Volker Tomantschger, Eduard Auff, Thomas Bruecke, Werner Poewe, Gerhard Ransmayr*
- P01.212** Young Onset Parkinson's Disease Due to Homozygous Duplication of SNCA in a Consanguineous Family from Pakistan *Maja Kojovic, Una Sheerin, Ignacio Rubio-Agusti, Jose Bras, Nicholas Wood, Henry Houlden, John Hardy, Kailash Bhatia*
- P01.213** Impact of Variant GSTP1 A/w26I Metabolizing Pesticides, Tobacco and Alcohol in Parkinson's Disease *Marcela Pinhel, Gabriela Longo, Michele Gregorio, Fabio Oliveira, Caroline Sado, Gisele Amorim, Greiciane Florim, Denise Martins, Marcelo Nakazone, Doroteia Souza, Waldir Tognola*
- P01.214** Progressive Cortical Degeneration in Parkinson's Disease *David Benninger, Jürgen Dukart, Jan Von Meyenburg, Sebastian Thees, Claudio Bassetti, Daniel Waldvogel, Spyridon Kollias, Kazumi Iseki, Bogdan Draganski*
- Movement Disorders: Dystonia and Dystonic Syndromes**
- P01.215** Dopamine Dysregulation in a Mouse Model of Paroxysmal Non-Kinesigenic Dyskinesia *Hsien-yang Lee, Emmanuel Pothos, Ellen J. Hess, Ying-Hui Fu, Robert Edwards, Louis Ptacek*
- P01.216** Multimodal Neuroimaging Study of the Cerebellum in Primary Cervical Dystonia *Luiza Piovesana, Lidiane Campos, Fabio Torres, Fernando Cendes, Iscia Lopes-Cendes, Gabriela Castellano, Marcondes Franca, Camila Piccinin, Maria Cristina Santos, Thays Mineli, Ricardo Landim, Augusto Celso Amato Filho, Anelyssa D'Abreu*
- P01.217** Clinicopathological Analysis of Japanese Patients with Corticobasal Syndrome *Haruka Ouchi, Takayoshi Shimohata, Yasuko Toyoshima, Mari Tada, Hitoshi Takahashi, Masatoyo Nishizawa*
- P01.218** Penetrance of Abnormal Temporal Discrimination Thresholds in Unaffected First-Degree Relatives of Adult Onset Primary Torsion Dystonia Patients *Okka Kimmich, David Bradley, Anna Molloy, Robert Whelan, Sean O'Riordan, Richard Reilly, Siobhan Hutchinson, Fiona Molloy, Michael Hutchinson*
- P01.219** IncobotulinumtoxinA (Xeomin®) Remains Well Tolerated across Flexible Inter-Injection Intervals of 6-20 Weeks in the Treatment of Cervical Dystonia *Hubert Fernandez, Daniel Truong, Friedrich Asmus, Angelika Hanschmann, Mark LeDoux*
- P01.220** Functional Correlates of Temporal Discrimination in Adult Onset Primary Torsion Dystonia Patients and Unaffected First-Degree Relatives *Robert Whelan, David Bradley, Okka Kimmich, Joshua Balsters, Sean O'Riordan, Richard Reilly, Michael Hutchinson*
- P01.221** Mutations in PNKD Causing Paroxysmal Dyskinesia Alters Protein Cleavage and Stability *Louis Ptacek, Yiguo Shen, Ying-Hui Fu*
- P01.222** Dystonia in FMR1 Premutation Carriers *Christina Vaughan, Bichun Ouyang, Christopher Goetz, Elizabeth Berry-Kravis, Randi Hagerman, Maureen Leehey, Deborah Hall*
- P01.223** Dystonic Respiratory Dysregulation and Other Breathing Disorders Associated with Dystonia *Raja Mehanna, Joseph Jankovic*
- P01.224** Fatigue, Sleepiness and Sleep Issues in Patients with Dystonia *Katherine Heese, Apama Wagle-Shukla, Michael Okun, Benzi Kluger*
- P01.225** Psychiatric and Neurocognitive Morbidity in Rapid-Onset Dystonia Parkinsonism *Allison Brashear, Jared Cook, Alethea Amponsah, Deborah Hill, Beverly Snively, Laney Light, Cynthia Suerken, W. Vaughn McCall, Niki Boggs, Mark Stacy, Laurie Ozelius, Kathleen Sweadner*
- P01.226** Effect of Botulinum Toxin Therapy on the Sensorimotor Feedback Loop in Cervical Dystonia *Naganand Sripathi, Kavita Grover, Christos Sidiropoulos, Susan Bowyer*
- P01.227** Status Dystonicus Following Deep Brain Stimulation Surgery in DYT1 Dystonia Patients *Tyler Cheung, Virginia Flatow, Sharona Ben-Haim, Irene Osborn, Catherine Cho, Michele Tagliati, Ron Alterman*
- P01.228** ANCHOR-CD (AbobotulinumtoxinA Neurotoxin: Clinical & Health Economics Outcomes Registry in Cervical Dystonia): A Multicenter, Observational Study of Dysport in Cervical Dystonia: Baseline Data and Interim Outcomes Data *Richard Trosch, Peter LeWitt, Mark Lew, Charles Adler, Cathryn Clary, Yavuz Silay, Dominic Marchese, Cynthia Comella*
- P01.229** Evaluation of Specific Immune Responses to BoNT/A and Tetanus Toxoid in Patients Undergoing Treatment for Neurologic Disorders *Minas Tzagourmissakis, Zacharenia Vlata, Elias Krambovitis, George Dolapsakis, Aristidis Tsatsakis*
- P01.230** Flu-Like and Systemic Symptoms Following Treatment with Botulinum Toxins *Jose Baizabal Carvallo, Joseph Jankovic*
- P01.231** Severity of Cervical Dystonia: Baseline Characteristics from the Cervical Dystonia Patient Registry for Observation of OnabotulinumtoxinA Efficacy (CD-PROBE) *P. Charles, Joseph Jankovic, Charles Adler, Mitchell Brin, Mark Stacy, Marc Schwartz, Spiridon Papapetropoulos*
- P01.232** Misdiagnosis of Hemifacial Spasm and Its Impact on Quality of Life: Analysis of 66 Brazilian Patients Referred to a Tertiary Center *Alberto Martinez, Marcelo Nunes, Nayara Imrich, Luiza Piovesana, Lidiane Campos, Marcondes Franca, Anelyssa D'Abreu*
- P01.233** Movement Disorders in Children with Acute Bilateral Lesions of the Basal Ganglia: A Case Series *Tuhin Vimani, Toni Pearson*
- P01.234** Stress Levels Correlate with Severity of Cervical Dystonia *Sheila Rane, Cynthia Comella, Glenn Stebbins*
- P01.235** Relapsing Anti-Glycine Receptor Antibody Mediated Encephalitis with Rigidity and Myoclonus *Jennifer Williams, Karen O'Connell, Sean Connolly, Angela Vincent, Christopher McGuigan, Michael Hutchinson, Sean O'Riordan*
- P01.236** Fahr's Disease: Pediatric Presentation of a Rare Neurodegenerative Disorder *Nilika Singhal, Keith Van Haren, Yvonne Wu*
- P01.237** Successful Treatment of Severe Bruxism with OnabotulinumtoxinA in Patients with Post Anoxic Brain Injury *Nawaf Murshed, Youssef Dakka, Elizabeth Angus*
- P01.238** XCiDaBLE: A Phase 4, Observational, Prospective Trial Evaluating Xeomin (IncobotulinumtoxinA) for Cervical Dystonia or Blepharospasm in the United States – Preliminary Baseline Employment History Data *Hubert Fernandez, Fabio Danisi, Daniel Truong, Eric Pappert, Amit Verma, Kapil Sethi, Cindy Zadikoff*



## Poster Session I

**P01.239** Parvocellular Red Nucleus – A Neuromodulation Target for Medically Refractory Meige Syndrome? *Aman Deep, Sandipan Pati, Rohit Dhall, Abraham Lieberman, Kris Horn, Alan Gibson*

**P01.240** XCiDaBLE: A Phase 4, Observational, Prospective Trial Evaluating Xeomin (IncobotulinumtoxinA) for Cervical Dystonia or Blepharospasm in the United States – Preliminary Baseline Disease Severity and Quality of Life Data *Mark LeDoux, Daniel Lin, Joseph Jankovic, Eric Pappert, Amit Verma, Kapil Sethi, Hubert Fernandez*

**P01.241** Benefit of Deep Brain Stimulation for Secondary Focal Dystonia Due to Peripheral Injury *Jiaying Zhang, Julie Pilitis, Peter Novak*

**P01.242** A Cervical Dystonia Mimic: Congenital Muscular Torticollis (Fibromatosis Colli) in Adulthood *Hector Gonzalez Usigli, Ady Kendler, Alberto Espay*

**P01.243** The Natural History of Late Onset Tay-Sachs Disease *Padmaja Yerramilli-Rao, Ourania Giannikopoulos, Kim Kublis, Jessica Pan, Florian Eichler*

#### Infections/AIDS/Prion Disease

**P01.244** Risk Factor Profile of HIV Patients with Ischemic Stroke *Anna Marisa Cervantes-Arslanian, Helena Lau, Jose Romero, Thanh Nguyen, Viken Babikian, Carlos Kase, Aleksandra Pikula*

**P01.245** Central Nervous System Involvement by *Malassezia restricta*, an Unusual Fungal Pathogen: A Report of Two Cases *Adriana Olar, Rabia Shafi, Michael Gilger, Charles Stager, Jason Moss, Deborah Schady, Clay Goodman*

**P01.246** Stroke in Patients with HIV Infection: Is It Different? *Aabha Shah, Amy Walker, Masayuki Nigo, Maryna Skliut*

**P01.247** Quality of Life in HIV-Associated Sensory Neuropathy in a Minority Population *Yelena Korotkaya, Yaacov Anziska*

**P01.248** *In Vitro* Studies of Interferon-alpha Neurotoxicity *William Tyor, Cari Fritz-French, Kristy Welshhans, Lynn Zhang, Andrew Sas, Gary Bassell*

**P01.249** Cryptococcal Meningitis in HIV-Negative Patients with Systemic Connective Tissue Diseases *Maria Del Mar Saniger-Alba, Maria Alejandra Gonzalez Duarte, Oscar Estrada, Erwin Chiquete, Rainier Rodriguez-Balaguer*

**P01.250** Mucormycosis Causing Basal Ganglia Encephalitis in an Intravenous Drug User *Tanya Lin, Rebecca Thompson, Bruce Coull*

**P01.251** Stroke Secondary to Neurosyphilitic Vasculitis in an HIV/AIDS Patient *Mary Rickard, Stanley Iyadurai*

**P01.252** Case Series: 10 Patients with Cryptococcal Meningitis, Clinical Parameters and Treatment Dose *Fabiola Flores, Immer Armendariz*

**P01.253** An Almost Crypto(genic) Cause of Radiculopathy *Jessica Goldstein, Neha Dangayach, David Riley*

**P01.254** Facial Numbness: An Early Clinical Sign in Cerebral Mucormycosis *Jennifer Gutwald, Steven Kittner*

**P01.255** Monocyte Activation Markers in Cerebrospinal Fluid Are Associated with Impaired Neurocognitive Testing in Advanced HIV Infection *Jennifer Lyons, Anupa Kamat, Vikas Misra, Hajime Uno, Elyse Singer, Susan Morgello, Dana Gabuzda*

**P01.256** Reverse Transcription of HIV-RNA in Infected Monocytes Is Not Necessary To Activate Human Microglia: Investigation of the Microglial Bystander Hypothesis in Neuro-AIDS *Simon Faissner, Björn Ambrosius, Seray Demir, Klaus Uberla, Ralf Gold, Thomas Grunwald, Andrew Chan*

**P01.257** Attributable Burden of Neurological Disease in Older HIV-Positive Versus HIV-Negative Men: Findings from the Multicenter AIDS Cohort Study (MACS), 1997-2009 *Farrah Mateen, Russell Shinohara, Marco Carone, Eric Miller, Justin McArthur, Lisa Jacobson, Ned Sacktor*

**P01.258** Neurological Manifestations in HIV-Positive African American Population *Sherita Chapman, Misan Pessu, Elizabeth Chimah, Raza Khan, Mohankumar Kurukumbi, Annapurni Jayam-Trouth*

**P01.259** Neurocognitive Impairment Related to HIV Infection in Nigeria *Walter Royal, William Blattner, Mariana Cherner, Alash'le Abimiku, Clement Adebamowo, Joyce Johnson, Peter Alabi, Nura Alkali, Ibrahim Mamadu, Kanayo Okwuasaba, Ndidi Agala, Saurabh Gupta, Terence Hendrix, Lindsay Eyzaguirre, Lola Aragbada, Bukola Ojo, Ruxton Adebiji*

**P01.260** Epilepsy in Children with HIV/AIDS in Botswana: Prevalence, Risk Factors, and Outcomes *David Bearden, Kate Brizzi, Dennis Dlugos, David Goldfarb, Dennis Kolson, Elizabeth Lowenthal, Andrew Steenhoff, Sudha Kessler*

**P01.261** Longitudinal Cognitive Functioning and Antiretroviral Therapy Use among HIV+ Persons in Uganda *Ozioma Okonkwo, Noeline Nakasujja, Kevin Robertson, Richard Skolasky, Ely Katabira, Seggane Musisi, Ned Sacktor*

**P01.262** Depression and Mood States and Correlations with Biomarkers of Central Nervous System Disease in Primary-HIV Infection *Jessica Gold, Julia Peterson, Evelyn Lee, Dietmar Fuchs, Richard Price, Constantin Yiannoutsos, Kevin Robertson, Serena Spudich*

**P01.263** Thinning of Retinal Nerve Fiber Layer Is Associated with Neurocognitive Impairment in HIV Infected Women *Carolina De Jesus-Acosta, Noel Rosado, Rosa Hechavarria, Liza San Miguel, Luis Serrano, Avindra Nath, Valerie Wojna*

**P01.264** Chronic Progressive External Ophthalmoplegia and Cerebral Folate Defect in a Patient Undergoing Antiretroviral Treatment for HIV: Effects on Mitochondrial Function *Lauren Mylacraine, William Langley, Keith Hyland, John Shoffner*



# Run/Walk for Brain Research

Sponsored by Teva Pharmaceuticals

## Challenge Your Section to Support Research

Set your marks for Tuesday, April 24, 6:30 a.m. and get moving to support new clinical research training fellowships in 2012. Again this year, the AAN Sports Neurology Section is hosting a friendly section challenge to help raise support.

Join the challenge and set up your pledges at [www.aan.com/view/runwalk](http://www.aan.com/view/runwalk).



## Poster Discussion Session: Cerebrovascular Disease

**PD2.001** Absence of Upper Limb Movement within 72 Hours after Acute Ischemic Stroke Predicts Spasticity at 3 Months *Wayne Feng, Evgeny Sidorov, Gottfried Schlaug*

**PD2.002** In-Vivo Detection of Late Persistent Microglia Activation in the Chronic Phase of Embolic Stroke in Rats *Michael Schroeter, Maureen Walberer, Sabine Jantzen, Heiko Backes, Maria Rueger, Bernd Neumaier, Heike Endepols, Mathias Hoehn, Rudolf Graf, Gereon Fink*

**PD2.003** Negative MRI Findings in Stroke *Jennifer Watts, Tony Alvaro, Andrew Kelly, Brad Wood*

**PD2.004** Joint Commission Primary Stroke Center Certification Increases rt-PA Treatment *Michael Mullen, Scott Kasner, Michael Kallan, Dawn Kleindorfer, Karen Albright, Brendan Carr*

**PD2.005** A Comparison of Vascular Neurologist Interpretation Versus Radiology Reports of Computed Tomographic Imaging for Determining Eligibility of Intravenous Thrombolysis in Patients with Acute Ischemic Stroke *Nazli Janjua, Ameer Hassan, Shahram Majidi, Saqib Chaudhry, Wondwossen Tekle, Adnan Qureshi*

**PD2.006** Outpatient Cardiac Telemetry Detects a High Rate of Atrial Fibrillation among Patients with Cryptogenic Cerebral Ischemia *Muhib Khan, Daniel Miller, Lonni Schultz, Jennifer Simpson, Andrew Russman, Panayiotis Mitsias*

**PD2.007** Extraluminal Protruding Plaques in Intracranial Arteries. An Angiographic and Pathological Analysis of Circle of Willis Specimens from the Nun Study *Muhammad Suri, Shahram Majidi, Karen Santa Cruz, Joyce Meints, Adnan Qureshi*

**PD2.008** Seizures Do Not Increase In-Hospital Death after Intracranial Hemorrhage *Michael Mullen, Scott Kasner, Steven Messe*

**PD2.009** Neurohospitalists Improve Door to Needle Times for Intravenous tPA in Ischemic Stroke Patients *Archit Bhatt, Ahmed Shatila*

**PD2.010** Life-Time Bleeding Events among Stroke Patients with Atrial Fibrillation during Warfarin Treatment: A Population-Based Cohort Study *Raymond Seet, Alejandro Rabinstein, Teresa Christianson, George Petty, Robert Brown*

## Neural Repair/Rehabilitation

**PD2.001** Functional Outcome Measures Correlated with Strength in Becker Muscular Dystrophy *Lindsay Alfano, Linda Lowes, Laurence Viollet, Kevin Flanigan, Jerry Mendell*

**PD2.002** Hands-Free Executive Assessment in Patients with Tetraplegia Following Acute Traumatic Spinal Cord Injury *Kristina Janssen Donovan, Victor Mark*

**PD2.003** A Prosthesis for Restoration of Speech in Locked-In Patients *Philip Kennedy*

**PD2.004** Effect on Functional Brain Plasticity of a Motor Dexterity Training Carried out with and without Musical Cues: An fMRI Study of the Mirror Neuron System in Healthy Individuals *Gianna Carla Riccietelli, Maria Rocca, Letizia Panicali, Elisa Gobetti, Maria Chiara Di Fabio, Roberto Gatti, Paola Valsasina, Andrea Falini, Giancarlo Comi, Massimo Filippi*

**PD2.005** A Hebbian Approach to Retraining Spared Circuits after Spinal Cord Injury *Noam Harel, Kang Ho Song, Xin Tang, Ann Spungen, Stephen Strittmatter*

**PD2.006** Efficacy of Intravenous Dexamethazone for Acute Disc Herniation-Induced Sciatica *Radi Shahien, Saad Abu Saleh, Alaa Abu Saleh*

**PD2.007** Pushing the Limit: A Woman with Progressive Myelopathy *Kendra Cagniart, Edwin Landaker*

**PD2.008** Colonoscopic Lesions in Veterans with Spinal Cord Injury *Meheroz Rabadi, Andrea Vincent*

**PD2.009** Effectiveness of an Outpatient Cognitive Stimulation Program in Patients with Mild Cognitive Impairment, Alzheimer's Disease and Other Neurodegenerative Diseases in Argentina: A Prospective Cohort Study *Ignacio Demey, Galeno Rojas, Carolina Feldberg, Adriana Leis, Gastón Saux, Verónica Somale, Ricardo Allegri, Fernando Caceres*

**PD2.010** Quantification of Pain-Related Impairment in Subjects with Polytrauma-Induced Nervous System Disorders, According to AMA Guides Sixth Edition, and Its Correlation with Physical Performance Status *Armando Miciano*

**PD2.011** Expression of CD20 by Adult Neural Progenitor Cells *Rina Zilkha-Falb, Michael Gurevich, Anat Achiron*

**PD2.012** Intrathecally Transplanted Adult Neural Stem/Precursor Cells Crosstalk with Infiltrating Inflammatory Cells in Experimental Autoimmune Encephalomyelitis *Donatella De Feo, Cecilia Laterza, Arianna Merlini, Francesca Ruffini, Elena Brambilla, Giancarlo Comi, Gianvito Martino*

**PD2.013** Ex-Vivo Gene Therapy Approach for Continuous Delivery of BDNF and Its Potential Use for Neurological Disorders *Andrew Gomez-Vargas, Gonzalo Hortelano, Michel Rathbone*

**PD2.014** Direct Conversion to Neurons from Adult Human Fibroblasts and Hematopoietic Stem Cells In Vitro *Avindra Nath, Elliot Choi, Tongguang Wang*

**PD2.015** The Cytokine Profile of Human Umbilical Cord Blood *Nizar Souayah, Norman Ende, Hongxin Chen*

**PD2.016** Pooled Short Hairpin (shRNA) Library Screen Coupled with Next-Generation Sequencing Efficiently Uncover Transcriptional Network in Neural Lineage Development of Human Embryonic Stem Cells *Anna Szekely, Ying Zhang, Brian Reed, Vincent Schulz, Zheng Wang, Ghia Euskirchen, Michael Snyder, Natalia Ivanova, Sherman Weissman*

**PD2.017** Functional Dopaminergic Neurons Derived from Human Parthenogenetic Stem Cells *Rusian Semechkin, Ibon Garitaoandia, Tatiana Abramihina, Tatjana Zogovic-Kapsalis, Richard West, Albrecht Mueller, Marie Csete, Andrey Semechkin*

**PD2.018** Occipital Areas Distinguish Semantic Content in Congenitally Blind but Not Sighted Individuals *Sashank Prasad, Feitong Yang, Omar Butt, Lauren Brandes, Ritobrato Datta, Amy Thomas, Geoffrey Aguire*

**PD2.019** Electrophysiological Investigation of Fatigue in Electrical Injury Patients *Kaviraja Udupa, Aidin Kashigar, Joel Fish, Robert Chen*

**PD2.020** High Prevalence of Hypovitaminosis D in Patients with Neurologic Disorders from a Rehabilitation Day-Hospital *Leonardo Triggiani, Riccardo Corona, Annalisa Barracchini, Giovanni Minisola*

**PD2.021** Safety, Tolerability and Pharmacokinetics of the Anti-LINGO-1 Monoclonal Antibody B1B033 in Healthy Volunteers and Subjects with Multiple Sclerosis *Jonathan Tran, Ramesh Palaparthi, Jim Zhao, Kristin Brososfsky, Soma Ray, Jitesh Rana, Diego Cadavid*

**PD2.022** Adult-Onset Progressive Spastic Paraparesis Due to a Novel, Heteroplasmic Mitochondrial tRNAGlu (m.14685A>G) Gene Mutation *Sharmilee Gnanapavan, Charlotte Alston, Nichola Lax, John Yarham, Christopher Everett, Hamid Hewazy, Dominic O'Donovan, Andrew Dean, Robert Taylor*

**PD2.023** Effects of Ionizing Radiation on Neural Precursor Cells *Hongxin Chen, Steve Levison, Sonia De Toledo, Edouard Azzam, Nizar Souayah*

## Behavioral Neurology: Attention and Neglect

**PD2.024** Disengagement Neglect *David Burtis, John Williamson, Salsabil Haque, Michal Harciarek, Kenneth Heilman*

**PD2.025** Ipsilesional Neglect in Right Hemisphere with Right Hemisphere Strokes *John Williamson, Salsabil Haque, David Burtis, Kenneth Heilman*

**PD2.026** A Lateralized Brain Network for Visuospatial Attention *Michel Thiebaut De Schotten, Flavio Dell'Acqua, Stephanie Forkel, Andrew Simmons, Francesco Vergani, Declan Murphy, Marco Catani*

**PD2.027** Integrity of Medial Visuomotor Pathway Predicts Better Recovery in Neglect Patients Receiving Prism Adaptation Treatment *Priyanka Shah, Pei Chen, Kelly Goedert, Anne Foundas, A. Barrett*

**PD2.028** Speed of Global Versus Focal Processing *Liliana Salazar, Muhammad Jaffer, David Burtis, Ryan Isham, John Williamson, Kenneth Heilman*

## Poster Session II

**P02.029** Neuropsychological Correlates of Parietal Atrophy in Logopenic Progressive Aphasia *Mary Machulda, Jennifer Whitwell, Pamela Dean, Jackie Micklewright, Joseph Duffy, Edythe Strand, Keith Josephs*

**P02.030** The Effects of Monocular Viewing on Verbal Versus Figural Processing during Focal Versus Global Attention *Muhammad Jaffer, David Burtis, Liliana Salazar, John Williamson, Kenneth Heilman, Ryan Isham*

**P02.031** Automated Video Tracking To Assess Executive Aspects of Cancellation in Stroke *Victor Mark, Lindsey Chasan*

**P02.032** Neglect and Extinction of Kinesthesia and Thesesthesia: Cognitive and Anatomical Considerations *Elissaios Karageorgiou*

**P02.033** Using the Catherine Bergego Scale (CBS) in Rehabilitation of Spatial Neglect: Kessler-CBS Process *Pei Chen, Kimberly Hreha, Paola Fortis, Kelly Goedert, Anna Barrett*

### Behavioral Neurology: Neuropsychiatry/ Emotion/Insight

**P02.034** Additional Evidence for White Matter Damage in Never-Medicated Adults with Schizophrenia and Schizophreniform Disorder *Elisa Canu, Roberto Gasparotti, Federica Agosta, Paolo Valsecchi, Elisabetta Pagani, Giancarlo Comi, Emilio Sacchetti, Massimo Filippi*

**P02.035** The Role of Theory of Mind in Moral Cognition among Adult Patients with Asperger Syndrome *Ezequiel Gleichgerrch, Alexia Rattazzi, Victoria Marengo, Maria Roca, Teresa Torralva, Facundo Manes*

**P02.036** Living with Bálint's: A Descriptive, Narrative Account of Two Patients' Adaptations to Living with a Rare and Disabling Visuoperceptual Disorder *Jason Cuomo, Murray Flaster, Jose Biller*

**P02.037** Anosognosia and Multiple Sclerosis *Edgardo Reich, Elizabeth Arias, Mariana Kerszberg*

**P02.038** Left Hippocampal Volume and Verbal Memory Predict Depression in Older Adults *Deidre Devier, Tracey Knaus, Alexander Ramos, Anne Foundas, Alayar Kangarlu, Scott Small, Davangere Devanand*

**P02.039** Towards the Search for a Cognitive Pattern in Neuromyelitis Optica and Its Impact in Quality of Life *Sandra Vanotti, Barbara Izaguirre, Evangelina Cores, Luciana Melamud, Julia Santos, Orlando Garcea, Andres Villa*

**P02.040** The Natural History of Anosognosia for Hemiplegia *Daniel Antoniello, Reena Gottesman*

**P02.041** Case Report: Manganese Neurotoxicity with Psychiatric Symptoms in a Patient Waiting for Liver Transplantation *Catherine Maurice, Lairy Chamelian, Hélène Masson*

**P02.042** How Behavioral and Quality of Life Changes Affect Social Cognition in Multiple Sclerosis Patients *Sandra Vanotti, Galeno Rojas, Ricardo Allegri, Fernando Caceres, RELACCEN Workgroup*

**P02.043** Hospital Acquired Delirium with Myoclonus Secondary to Famotidine *Subhashie Wijemanne, Judith Hinchey*

### Behavioral Neurology: Language/Praxis

**P02.044** Usefulness of a Short Form of the Pyramids and Palm Trees Test To Differentiate Variants of Primary Progressive Aphasia *Trisha Lala, David Race, Kyra Tsapkini, Argye Hillis*

**P02.045** Quantifying Fluency of Connected Speech with a Brief Protocol in Primary Progressive Aphasia *Sharon Ash, Emily Evans, Jessica O'Shea, Ashley Boller, Lisa Burkholder, Emily Camp, Peachie Moore, Danielle Weinberg, Jenna Haley, Jessica Kitain, Murray Grossman*

**P02.046** Neuroanatomical Correlates of Error Rates on a Object Semantics Test *Trisha Lala, Kyra Tsapkini, Argye Hillis, Susumu Mori, Andreia Faria*

**P02.047** Parkinsonism in the Agrammatic and Logopenic Variants of Primary Progressive Aphasia *Jonathan Graff-Radford, Joseph Duffy, Edythe Strand, Keith Josephs*

**P02.048** Differentiating Primary Progressive Aphasias in a Brief Sample of Connected Speech *Sharon Ash, Emily Evans, Jessica O'Shea, Ashley Boller, Lisa Burkholder, Emily Camp, Peachie Moore, Danielle Weinberg, Jenna Haley, Jessica Kitain, Murray Grossman*

**P02.049** Dynamics of Semantic Recall in Younger and Older Adults *Alan Lerner, Andrea Rosati, Jeffrey Kaye, Shawn Smyth, Wojbor Woyczynski*

**P02.050** A Transient Loss of British Charm: A Case of Foreign Accent Syndrome and Proposed Neuroanatomical Pathway *Daniel Roque, Mohan Kottapally, Fatta Nahab*

**P02.051** Aphasia in Neurodegenerative Diseases: Can Language Impairment Predict the Underlying Pathology? *Catherine Sagot, Laure Saint-Aubert, Catherine Bezy, Hélène Mirabel, Pierre Payoux, Hervé Dumas, Christian Vincent, Patrice Peran, Emmanuel Barbeau, Michele Puel, Francois Chollet, Jeremie Pariente*

**P02.052** Thematic Role Density Impairs Action Verb Comprehension in Alzheimer's Disease *Ashley Boller, John Powers, Lisa Burkholder, Peachie Moore, Emily Camp, Murray Grossman*

**P02.053** Sex-Linked & Handedness Effects: Do Temporal-Parietal Asymmetry Patterns Diverge in Adults Who Stutter? *Anne Foundas, David Corey*

**P02.054** Integrating Social Cognition Measures with Neuropsychological Testing *Alan Lerner, Corey Brier, Wojbor Woyczynski, Shawn Smyth, Anitha Rao-Frisch, Anthony Jack*

### Aging and Dementia: Biochemical Markers

**P02.055** Comparison of Cerebrospinal Fluid Levels of Tau and A $\beta$ 1-42 in Alzheimer's Disease and Frontotemporal Degeneration Using Two Analytical Platforms *David Irwin, Corey McMillan, Jon Toledo, Steven Arnold, Leslie Shaw, Li-San Wang, Virginia Lee, John Trojanowski, Murray Grossman*

**P02.056** Inflammation Is Related to Corpus Callosum Integrity and Executive Functions in Healthy Older Adults *Brianna Bettcher, Christa Watson, Ralph Green, Joshua Miller, Caroline Racine, Reva Wilhelm, Bruce Miller, Joel Kramer*

**P02.057** Does Dementia Associated with Vitamin B12 Deficiency Respond to Treatment? *Pavan Bhargava, Thomas Ala*

**P02.058** Plasma n-3 PUFAs, Cognitive Decline, and White Matter Mediation *Gene Bowman, Hiroko Dodge, Lisa Silbert, Lynne Shinto, Jeffrey Kaye, Joseph Quinn*

**P02.059** Vitamin B12 and Neurological Function: Is There a Threshold Level? *Kira Leishear, Robert Boudreau, Stephanie Studenski, Luigi Ferrucci, Caterina Rosano, Nathalie de Rekeneire, Denise Houston, Stephen Kritchevsky, Ann Schwartz, Aaron Vinik, Eva Hogervorst, Kristine Yaffe, Tamara Harris, Anne Newman, Elsa Strotmeyer*

**P02.060** Production and Characterization of High Affinity Rabbit Monoclonal Antibodies (RmAbs) to Amyloid  $\beta$ 38 (A $\beta$ 38) Peptide *Pankaj Mehta, Marc Barshatzky, Anna Potempska, Bruce Patrick, Sangita Mehta, Jerzy Wegiel, David Miller*

**P02.061** Systemic Inflammatory Markers, Cognition and Brain Structure among Cognitively Normal Elderly *Mario Riverol, James Becker, Oscar Lopez, Cyrus Raji, Paul Thompson, Owen Carmichael, H. Gach, W. T. Longstreth, Linda Fried, Russell Tracy, Lewis Kuller*

**P02.062** Stability of Plasma Antibody Signature in Elderly Individuals with or without Alzheimer's Disease *Lucas Restrepo, Phillip Stafford, Stephen Johnston*

**P02.063** Cystatin C Predicts Changes in Brain Structure and Cognition in the Elderly *Mario Riverol, James Becker, Oscar Lopez, Cyrus Raji, Paul Thompson, Owen Carmichael, H. Gach, W. T. Longstreth, Linda Fried, Russell Tracy, Lewis Kuller*

**P02.064** Plasma Vitamin D, Cognitive Function, and Cerebrospinal Fluid Biomarkers in Subjects at Risk of Alzheimer's Disease *Amie Peterson, John Breiner, Jeffrey Kaye, Gene Bowman, Laura Baker, Aaron Clemons, Thomas Montine, Joseph Quinn*

### Multiple Sclerosis: Immunology

**P02.065** CNS Live Imaging Reveals a New Mechanism of Myelination: The Liquid Croissant Model *Norbert Goebels, Bettina Sobotta, Andres Kaech, Burkhard Becher, Urs Ziegler*

**P02.066** Multiple Sclerosis: Selective Deregulation of microRNA Biogenesis in B Cells *Latt Latt Aung, Konstantin Balashov*

**P02.067** An Overlap in the Humoral Immune Response by NMO and MS Patients That Is Distinct from Patients with Other Neurological Diseases *Nancy Monson, William Rounds, Ann Ligocki, Lindsay Cowell, Benjamin Greenberg, Elliot Frohman, Jeffrey Bennett*

**P02.068** Oxidative Stress Imbalance in Multiple Sclerosis Patients *Maira Gironi, Matilde Vaghi, Enrica Mariani, Cristina Cursano, valentina di Stolfo, Paola Tortorella, Raffaello Nemni, Marina Saresella, Marco Rovaris*

**P02.069** Elevated Thyroid Peroxidase Antibodies as an Indicator of Increased Thyroid Autoimmunity among Multiple Sclerosis Patients in the Postpartum Setting *Anna Jalkanen, Laura Airas*

**P02.070** Laquinimod Treatment Enhances Callosal Conduction in a Chronic Mouse Model of Multiple Sclerosis *Seema Tiwari-Woodruff, Rhushet Patel, Manda Sasidhar, Timothy Yoo, Spencer Moore*

**P02.071** Monitoring Free and Cell-Bound Natalizumab in CSF and Blood in Natalizumab-Treated MS Patients *Tony Sehr, Undine Hainke, Katja Thomas, Thorsten Schultheiss, Tjalf Ziemssen*

**P02.072** Effects of Natalizumab on the B-Cell Frequency and the Cytokine Expression in Blood *David Schaller, Veronika Scholz, Hebur Erdur, Christian Meisel, Henrik Mei, Marko Chatzopoulos, Judith Haas, Lutz Harms, Berit Rosche*

**P02.073** Multiple Sclerosis Patients Treated with IFN $\beta$ -1b Express a Unique Isoform of the Oxidation Resistance Protein NCOA7 *Lijian Yu, Ed Croze, Volker Knappertz, Michael Volkert*

## Poster Session II

**P02.074** Metalloproteinase-Disintegrins in MS Patients and Their Regulation by Interferon-beta *Thomas Dehmel, Birgit Opgenoorth, Hans Hartung, Bernd Kieseier*

### Multiple Sclerosis: Immunological Biomarkers

**P02.075** The Specificity of the Antibody Response to Epstein-Barr Virus Is Altered in Multiple Sclerosis *John Lindsey, Thomas Powell, Waseem Ansari, Yueh-Hsin Wang, Uffaf Khan*

**P02.076** Quantification of EBNA-1-Specific CD8+ T-Cells in Cerebrospinal Fluid and Peripheral Blood of Patients with Multiple Sclerosis *Hebun Erdur, Christian Meisel, Constanze Schönemann, Klaus-Peter Wandinger, Berit Rosche*

**P02.077** Adipokine Levels in Relapsing and Progressive Forms of Multiple Sclerosis *Silvia Messina, David Vargas-Lowy, Roopali Gandhi, Pia Kivisakk, Brian Healy, Francesco Patti, Mario Zappia, Samia Khoury, Howard Weiner, Tanuja Chitnis*

**P02.078** Leptin Levels in Multiple Sclerosis *Helena Lee, Azza Ismail, Samish Dhungana, Nicola Woodroffe, Basil Sharrack*

**P02.079** Serum Concentrations of Resistin, Leptin and Adiponectin in Multiple Sclerosis and Myasthenic Patients Are Independent from Insulin Resistance *Slawomir Michalak, Lukas Jernas, Elzbieta Tokarz, Halina Wygladalska-Jernas, Wojciech Kozubski*

**P02.080** A Panel of Exploratory CSF Biomarkers in Patients with an Initial Demyelinating Event of the CNS: Does It Add Relevant Information to Usual Work-Up? *Alberto Gajofatto, Matilde Bongianini, Michele Fiorini, Gianluigi Zanusso, Maria Rachele Bianchi, Silvia Richelli, Marco Turatti, Maria Donata Benedetti, Salvatore Monaco*

**P02.081** Flow Cytometric Immunophenotyping of the Blood and CSF of Patients with Multiple Sclerosis *Sungpil Han, Alan Salgado, Tariq Alfahad, Bibiana Bielekova*

**P02.082** Neuroketals in the Cerebrospinal Fluid of Multiple Sclerosis Patients *Donald Lee, Fozia Mir, Saud Sadiq*

**P02.083** Increased IL-27 Cytokine Levels in the Cerebrospinal Fluid but Not in the Blood of Multiple Sclerosis Patients *Caroline Pot Kreis, Catherine Juillard-Mochon, Patrice LaLive*

**P02.084** Astrocyte-Derived VEGF-A Drives Blood-Brain Barrier Disruption, Lymphocyte Infiltration and Neuropathology in Inflammatory and Demyelinating CNS Disease *Azeb Argaw, Linnea Asp, Jingya Zhang, Trinh Pham, John Mariani, Dipankar Dutta, Elisabeth Kramer, Gareth John*

**P02.085** Anti-CD20 Therapy Reduces Microglial Activation and Lesion Volume in Focal Models of Pattern I and Pattern II Multiple Sclerosis *David Leppert, Sandra Campbell, Nicolas Seneca, Edward Warren, Mercedes Balazs, Daniel Anthony*

**P02.086** IFNbeta-1b Treatment Alters the Composition of Circulating B Cell Subsets, in Particular Reducing the Number of Autoantibody Secreting B1 Cells in Patients with Relapsing-Remitting Multiple Sclerosis *Daniel Mielcarz, Alan Bergeron, John DeLong, Kathleen Smith, Alexandra Heyn, Karen Mack, Mary Ann Conrad, Brant Oliver, Lloyd Kasper, Jacqueline Channon*

**P02.087** Differential Immunological Changes in Peripheral and CNS Compartments during Fingolimod Therapy in MS *Tony Sehr, Undine Hainke, Katja Thomas, Thorsten Schultheiss, Tjalf Ziemssen*

**P02.088** T Regulatory (Tregs) and Suppressor Cytokine mRNA (IL-10, TGFβ, IL-27) Increase after Alemtuzumab in MS: First 24 Month Immunological Report on 323 and 324 Genzyme Trials *Stefania De Mercanti, Angele Cucci, Emanuela Viglietta, Alessandra Giai Via, Daniela Taverna, Daniela Cimino, Simona Rolla, Valentina Bardina, Franco Novelli, Joseph Vargas, Marco Gibbin, Federico Piazza, Anton Vlado, Vesna Brinar, Mario Habek, Eleonora Cocco, Pietro Annovazzi, Dana Horakova, Ivana Kovarova, Marinella Clerico, Luca Durelli*

**P02.089** Association of Targeted Blood Biomarkers with Interferon Beta-1a Treatment Administration, Magnetic Resonance Imaging Activity, and Treatment Response *Bruce Cree, Lohith Madireddy, Nicola De Stefano, Stacey Caillier, Maria Laura Stromillo, Marco Battaglini, Emmanuel Monet, Anne Cromer, Mauro D'Antonio, Pierre Farmer, Lorenz Lehr, Manolo Beelke, Sergio Baranzini*

**P02.090** Fingolimod Reduces Circulating CD4+ Counts in Patients with Relapsing Multiple Sclerosis (RMS) *Kyle Smoot, Kiren Kresa-Reahl, Leah Gaedeke, Stanley Cohan*

**P02.091** Immunological Markers Network Investigated with a Novel Mathematical Approach in Multiple Sclerosis Patients *Mario Clerici, Enzo Grossi, Marina Saresella, Laura Mendozzi, Marco Rovaris, Maira Gironi*

**P02.092** gMS-Classifier1 Serum Assay Is Associated with Faster Relapsing-Remitting Multiple Sclerosis (RRMS) Disability Progression, Reaching Expanded Disability Status Scale (EDSS)  $\geq 4.0$  – A Retrospective Analysis *Jennifer Yarden, Hollie Schmidt, Larissa Spector, Meir Rimer, Sara Loud, Nir Dotan*

**P02.093** Comparison of Serum and Various Types of Plasma from Multiple Sclerosis Patients for Biomarker Studies *Parul Chaudhary, Wallace Baldwin, Nitin Karandikar, Elliot Frohman, Benjamin Greenberg*

**P02.094** Molecular Subtypes of Relapsing Multiple Sclerosis Can Be Distinguished by Whole Blood Transcriptome Analysis *J. Theodore Phillips, Mamta Sharma, Damien Chaussabel, Jacques Banchemereau, Virginia Pascual*

**P02.095** Do Immunological Profiles of the Cerebrospinal Fluid Correlate with Disease Severity in Multiple Sclerosis? *Edward Brydon, Emma Marszal, Saud Sadiq*

**P02.096** EBV, CMV, and HSV IgG Titers Are Not Predictive of Subsequent Relapse Risk in Pediatric Multiple Sclerosis *Jennifer Graves, Lauren Krupp, Bianca Weinstock-Guttman, Jonathan Strober, Anita Belman, E. Ann Yeh, Jayne Ness, Mark Gorman, Moses Rodriguez, Tanuja Chitnis, Emmanuelle Waubant*

**P02.097** Elevated Switch-Associated Protein 70 (SWAP70) Antibody Levels during Attacks in Multiple Sclerosis Patients *Ece Erdag, Elif Ugurel, Filiz Çavus, Burcak Vural, Murat Kürtüncü, Mefkure Eraksoy, Gülsen Akman-Demir, Erdem Tüzün*

**P02.098** Identification of Immunophenotypic Signatures in the Innate Immune System of MS Patients by Multiparametric Flow Cytometry *Ursula Schulte-Wrede, Joachim Grün, Veronika Scholz, Lutz Harms, Andreas Grützkau, Berit Rosche*

**P02.099** Relapse Related Differentially Expressed microRNA May Have a Role in Immunological Processes in MS *Maidar Muñoz-Culla, Haritz Irizar, Tamara Castillo-Trivino, Olaia Zuriarrain, Adolfo Lopez De Munain, Javier Olaskoaga Urtaza, David Otaegui*

**P02.100** Characterisation of Dendritic Cell Subsets in Lymph Nodes of Multiple Sclerosis Patients Treated with Transdermally Delivered Myelin Peptides *Maciej Jurynczyk, Anna Jurewicz, Agata Walczak, Karolina Wodz-Naskiewicz, Krzysztof Selmaj*

**P02.101** Characterization of Blood-Derived Plasmacytoid Dendritic Cells and Myeloid Dendritic Cells in Multiple Sclerosis (MS) Patients, Healthy Controls, and Systemic Lupus Erythematosus (SLE) Patients *Mark Jensen, Anthony Reder, Timothy Niewold, Beverly Franek, Barry Amason*

**P02.102** Relation of Myelin Ingestion with Distinct Polarization Properties of Human Adult Microglia Versus Blood-Derived Macrophages *Bryce Durafourt, Craig Moore, Amit Bar-Or, Jack Antel*

**P02.103** A New Method for Diagnosing Multiple Sclerosis: Use of 454 Sequencing To Identify Somatic Hypermutation Frequency in B Cells from Multiple Sclerosis Patients *Benjamin Greenberg, Anne Ligocki, William Rounds, Eric Eastman, Douglas Bigwood, Paula Hardeman, Parul Chaudhary, Elliot Frohman, Lindsay Cowell, Nancy Monson*

**P02.104** Evaluation of Anti-Glycan Antibody Status in Relationship to Disease Parameters and as a Tool To Assist the Diagnosis of MS *Margaret Burnett, Alisha Kabadi*

### Multiple Sclerosis: Treatment MOA

**P02.105** Laquinimod Promotes T Cell Immune Modulation in Central Nervous System Autoimmunity Via Type II (M2) Myeloid APC *Ulf Schulze Topphoff, Aprana Shetty, Michel Varrin-Doyer, Nicolas Molnarfi, Sharon Sagan, Raymond Sobel, Patricia Nelson, Scott Zamvil*

**P02.106** Treatment with Oral Laquinimod Augments the In Situ Expression of Brain-Derived Neurotrophic Factor and Reduces CNS Injury *Rina Aharoni, Ravit Saada, Raya Eilam, Michael Sela, Ruth Arnon*

**P02.107** Fingolimod Treatment Is Associated with a Down-Modulation of S1P1 Receptor Protein in the CNS *Volker Brinkmann, Markus Streiff, Marc Bigaud, Bernd Kinzel*

**P02.108** Dimethyl Fumarate Suppresses Inflammation In Vitro Via Both Nrf2-Dependent and Nrf2-Independent Pathways *Pradeep Bista, WeiKe Zeng, Sarah Ryan, Matvey Lukashev, Masayuki Yamamoto*

**P02.109** Glatiramer Acetate Mediated Expression of  $\alpha 4\beta 1$  Integrin (VLA-4) on T and B Regulatory Cells in EAE Mice *Sakhina Begum-Haque, Marc Christy, Yan Wang, Kiel Telesford, Azizul Haque, Lloyd Kasper*

**P02.110** Prolonged Incubation with Laquinimod Protects Hippocampal Cells from Oxidative Stress *Axel Methner, Philipp Albrecht, Imane Bouchachia, Hans Hartung*

**P02.111** Laquinimod Restricts Inflammatory Gene Expression in a Human Model of Reactive Astroglia *Trinh Pham, Jingya Zhang, Liat Hayardeny Nisimov, Gareth John*

**P02.112** Fingolimod Treatment Reduces Circulating CD4+ Regulatory T Cells and Th17 Cells in Blood of Patients with Multiple Sclerosis *Volker Brinkmann, Friedrich Raulf, Corinne Vedrine, Cyril Allard*

## Poster Session II

**P02.113** Interferon- $\beta$  Induces Hepatocyte Growth Factor in Peripheral Blood Monocytes of Multiple Sclerosis Patients *Nicolas Molnarfi, Mahdia Benkhoucha, Marie-Laure Santiago-Raber, Patricia LaVie*

**P02.114** Natalizumab Treatment Effects Sustained Decrease in Serum Levels of Fibronectin and Soluble Adhesion Molecules sVCAM-1 and sICAM-3 *Jorg Kraus, Katrin Oppermann, Georg Pilz, Peter Wipfler, Shahrzad Afazel, Elisabeth Haschke-Becher, Eugen Trinka, Andrea Harrer*

**P02.115** Analysis of Laquinimod Efficiency during Experimental Autoimmune Encephalomyelitis *Fred Lühder, Jan Winchenbach, Alexander Flügel*

**P02.116** Laquinimod-Mediated Modulation of B Cells from Multiple Sclerosis Patients: Affecting Direct and Indirect Immune-Regulatory Functions *Ariel Miller, Shahar Nussbaum, Elsebeth Staun-Ram, Ayelet Snir, Liat Hayardeny Nisimov, Doron Melamed, Elias Toubi*

**P02.117** Laquinimod Treatment Reduces an Immunogenic Dendritic Cell Population and Protects from Autoimmune CNS Inflammation *Ari Waismán, Joumana Masri, Valerie Jolivel, Felix Lüssi, Volker Siffrin, Frauke Zipp*

**P02.118** Effects of Laquinimod on the Human Blood-Brain Barrier *Hania Kebir, Jorge Ivan Alvarez, Alexandre Prat*

**P02.119** Alemtuzumab (Anti-CD52 mAb) Induces Expansion of Treg and Th2 Cells and Inhibits Th1 and Th17 Cells in Treated Patients with Relapsing Remitting Multiple Sclerosis (RRMS) *Xin Zhang, Yazhong Tao, Manisha Chopra, Luigi Troiani, Karen Marcus, Neelima Choudhary, Sibyl Wray, Stanley Krolczyk, Silva Markovic-Plese*

**P02.120** Dimethylfumarate Protects from Oxidative Stress by Increasing Glutathione *Philipp Albrecht, Imane Bouchachia, Zsuzsa Kovacs, Nadine Henke, Corinna Zimmermann, Harald Hofstetter, Hans Hartung, Axel Methner*

**P02.121** Neuroprotective Effects of BG-12 on Malonate-Induced Striatal Lesion Volume in Sprague-Dawley Rat Brain *H. Moore Arnold, Carol Huang, Ron Huang, Thomas Engber, Kenneth Rhodes, Robert Scannevin*

**P02.122** The Effect of Fingolimod on Peripheral Blood Mononuclear Cell Phenotypes: A Prospective Study *Thomas Dehmel, Birgit Opgenoorth, Hans Hartung, Maria Diaz Lorente, Bernd Kieseier*

**P02.123** Toll-Like Receptors as Genes Regulated by Interferon-beta and Their Role in Multiple Sclerosis Therapy *Uwe Zettl, Brigitte Paap, Hans-Juergen Thiesen, Klemens Rupprecht, Katja Derkow, Jakob Bauer, Seija Lehnardt, Dirk Koczan, Michael Hecker*

**P02.124** MicroRNA Expression Changes in Response to Interferon-beta-1b Therapy in Blood Cells of Patients with Multiple Sclerosis *Michael Hecker, Madhan Thamilarasan, Charlotte Angerstein, Brigitte Paap, Dirk Koczan, Hans-Juergen Thiesen, Uwe Zettl*

### Multiple Sclerosis: Biomarkers: Clinical Phenotypes

**P02.125** CSF Free Kappa Chains Predict Conversion to Multiple Sclerosis in Clinically Isolated Syndromes *José Alvarez-Cermeño, Mercedes Espiño, Lucienne Costa-Frossard, Alfonso Muriel, Luisa Villar*

**P02.126** B Cells and Subsets in Pediatric-Onset Relapsing-Remitting Multiple Sclerosis: Similarities and Differences to Adult-Onset Disease *Bettina Balint, Juergen Haas, Alexander Schwarz, Alexandra Fuerwentsches, Friedrich Ebinger, Benedikt Fritzscheing, Ulrich Seidel, Friedemann Paul, Peter Huppke, Jutta Gaertner, Brigitte Wildemann*

**P02.127** The Role of Prolactin on B Cell Regulation in Multiple Sclerosis *Jorge Correale, Mauricio Farez, María Ysraelit*

**P02.128** Cerebrospinal Fluid Derived from Progressive Multiple Sclerosis Patients Stimulates Differentiation of Neural Precursor Cells In Vitro *Barbara Cymring, Hannah Rosenthal, Massimiliano Cristofanilli, Saud Sadiq*

**P02.129** Neural and Immune-Related Molecules in Cerebrospinal Fluid (CSF) of Pediatric-Onset Acquired Demyelinating Syndromes (ADS) of the CNS: Differential Expression in Children Subsequently Diagnosed with Multiple Sclerosis vs. Monophasic Disease *Craig Moore, Anshul Awasthi, Omar de Faria Junior, Sathy Rajasekharan, David Colman, Brenda Banwell, Ajit Dhaunchak, Amit Bar-Or, on Behalf of Canadian Pediatric Demyelinating Disease Study*

**P02.130** NMO-IgG as Measured in Multiple Facilities in Optic Neuritis (ON), Transverse Myelitis (TM) and Combinations Thereof *Anna Fronda, Annie Kuan, Marvin Fritzier, Kazuo Fujihara, Toshiyuki Takahashi, Joel Oger*

**P02.131** B Cell Epitope Mapping of Aquaporin-4 (AQP4) and Reactivity to AQP4 Epitopes in Neuromyelitis Optica (NMO) and Relapsing-Remitting Multiple Sclerosis (RRMS) *Hary Alexopoulos, Eleni Kampylafka, Ioanna Chatzi, Clementine Karageorgiou, Marinou Dalakas, Athanasios Tzioufas*

**P02.132** The Effect of NMO-IgG and Complement Against Primary Human Astrocytes in Culture *Shuhei Nishiyama, Tatsuro Misu, Naoto Sugeno, Toshiyuki Takahashi, Ichiro Nakashima, Yasuto Itoyama, Masashi Aoki, Kazuo Fujihara*

**P02.133** Highly Sensitive Radioimmunoassay Identifies Anti-Aquaporin-4 Autoantibodies in Several "Seronegative" Patients Suspected for Neuromyelitis Optica-Spectrum Disorders (NMO) *Talith Zartos, Christos Stergiou, Haralambos Alexopoulos, Paraskevi Zismopoulou, Clementine Karageorgiou, Kostantinos Kilintireas, Marinou Dalakas, Socrates Tzartos*

**P02.134** Aquaporin-4 Peptide-Specific T Cells Induce CNS Inflammation *Patricia Nelson, Michel Varrin-Doyer, Collin Spencer, Sharon Sagan, Christopher Boyd, Raymond Sobel, Jeffrey Bennett, Scott Zamvil*

### Multiple Sclerosis: Treatment Biomarkers

**P02.135** Efficacy, Safety and JC-Antibody Prevalence Following Natalizumab Treatment for 36 Month and More in Patients with Relapsing Remitting Multiple Sclerosis *Susanne Sorgalla, Kathrin Gerbershagen, Sarah Bernsen, Michael Lang, Stephan Schmidt, Martin Marziniak, Heinz Wiendl, Volker Limmroth*

**P02.136** Disappearance of Cerebrospinal Fluid Oligoclonal Bands after Natalizumab Treatment of Multiple Sclerosis Patients *Felipe Von Glehn Silva, Alessandro Farias, Augusto Penalva-de-Oliveira, Alfredo Damasceno, Ana Leda Longhini, Elaine Oliveira, Benito Damasceno, Leonilda Santos, Carlos Otavio Brandao*

**P02.137** Anti-JC Virus Antibodies in a Large German Natalizumab-Treated Multiple Sclerosis Cohort *Andrew Chan, Anne-Kathrin Trampe, Claudia Hemmelmann, Anke Stroet, Aiden Haghikia, Kerstin Hellwig, Heinz Wiendl, Susan Goelz, Andreas Ziegler, Ralf Gold*

**P02.138** Epidemiology of Anti-JCV Antibodies in Israeli Multiple Sclerosis Population *Anat Achiron, Joab Chapman, Mark Dolev, David Magalashvili, Yael Stern, Moran Hillel, Tamar Kassierer, Havi Raz, Michael Gurevich*

**P02.139** Anti-JC Virus Antibody Titer Changes during Natalizumab Treatment in a Swedish MS Cohort *Clemens Warnke, Meena Subramanyam, Tomas Bergström, Susan Goelz, Tatiana Plavina, Ingrid Kockum, Afsar Rahbar, Tomas Olsson, Jan Hillert, Anna Fogdell-Hahn*

**P02.140** JCV Antibody Status: Patient Decision Making and Clinical Course *Malcolm Gottesman, Patricia Patrick, Denise Cheng, Eileen Boylan, Johanna Guardado*

**P02.141** Anti-JCV Antibody Prevalence in a French Cohort of MS Patients under Natalizumab *Olivier Outteryck, Jean-Claude Ongagna, Helene Zephir, Nicolas Collongues, Arnaud Lacour, Marie Fleury, Anne-Sophie Berteloot, Frederic Blanc, Marianne Giroux, Patrick Vermersch, Jerome De Seze*

**P02.142** Differential Increase of Circulating Haematopoietic Stem Cells (HSC) Following Therapeutic alpha 4-Integrin Blockade in Multiple Sclerosis: Correlation between HSC Mobilization Status and Response to Treatment *Miriam Mattosco, Richard Nicholas, Omar Malik, Francesco Dazzi, Jean Lee, Adam Waldman, Paolo Muraro*

**P02.143** Effect of Teriflunomide on the Viral Load and Anti-Viral Antibody Responses in the Theiler's Virus Model of MS *Andrew Pachner, Libin Li*

**P02.144** Serum Levels of Soluble Adhesion Molecules Remain Stable during Short- and Long-Term Interferon-beta-1b Treatment *Jorg Kraus, Ricarda Zaurrieth, Estefania Obregon-Castrillo, Katrin Oppermann, Georg Pilz, Peter Wipfler, Shahrzad Afazel, Elisabeth Haschke-Becher, Stefan Golaszewski, Wolfgang Hitzl, Eugen Trinkka, Andrea Harrer*

### Multiple Sclerosis: Differential Diagnosis

**P02.145** Differential Diagnosis of Adult-Onset Chronic Myelopathy: MRI-Based Approach *Svetlana Zhovtis, Jonathan Howard, Joseph Herbert, Ilya Kister*

**P02.146** Moyamoya Disease Can Masquerade as Multiple Sclerosis *Joslyn Woodard, Nancy Fischbein, Omar Choudhry, Teresa Bell-Stephens, Gary Steinberg, Leslie Dorfman*

**P02.147** The Co-Occurrence of MS and ALS: Chance or Shared Biology? *Megan Rahmlow, Eric Sorenson, Brian Crum, Claudia Lucchinetti, Orhun Kantarci, Jonathan Carter*

**P02.148** Neurosarcooidosis of Spinal Cord – Clinico-Radiologic Correlation of 26 Cases *Vivek Rai, Mirela Cerghet, Kavita Grover, Lonni Shultz, Stanton Elias*

**P02.149** Clinical, Imaging and Histopathological Features of Adult Onset Leukoencephalopathy with Neuroaxonal Spheroids and Pigmented Glia: A Report of 4 Cases *Kirk Kleinfeld, Bret Mobley, Adam Wegner, Siddharama Pawate*

**P02.150** White Matter Lesions in Behcet's Disease: Neuro-Behcet's Disease or Multiple Sclerosis? *Gulsen Akman-Demir, Melike Mutlu, Asli Kiyat-Atamer, Erkinul Shugaiv, Murat Kurtuncu, Ilknur Tugal-Tutkun, Erdem Tuzun, Sara Bahar*

## Poster Session II

**P02.151** Chronic Relapsing Inflammatory Optic Neuropathy: A Differential Diagnosis from Multiple Sclerosis *Federico Di Guglielmo, Marcelo Kremenchutzky*

**P02.152** Antiphospholipid Antibodies in the Initial Evaluation of Suspected Multiple Sclerosis Seem To Have Different Meanings *Pedro Rodriguez Cruz, Juan Pablo Cuello, Javier Perez Sanchez, Maria Luisa Martinez Gines, Clara De Andres Frutos*

**P02.153** Do We Need Broad Immunological Work-Up in All Patients with CIS? *Ivan Adamec, Mateja Boskovic, Ana Boskovic, Vanja Posavec, Marin Radmilovic, Tereza Gabelic, Mario Habek*

### Epilepsy: Immunology

**P02.154** Correlation between Antiphospholipid Antibodies and Epilepsy: A Systematic Review *Tanzil Rahman, Jorge Burneo, Blanca Del Pozzo-Magana, Erin Boyce, Alejandro Lazo-Langner*

**P02.155** Primary Antiphospholipid Antibody Syndrome Manifesting as Refractory Partial Status Epilepticus Unrelated to a Structural Brain Abnormality *Nancy Maalouf, Archana Hinduja, Bashir Shihabuddin*

**P02.156** Glutamate and the Pathogenesis of Glutamic Acid Decarboxylase Antibody Associated Epilepsy *Navid Seraji-Bozorgzad, Farhad Ghoddoussi, Xuan Yang, Jiani Hu, Matthew Galloway, Aashit Shah*

**P02.157** Clinical Spectrum and Course in Individuals with Adult-Onset Medically-Intractable Epilepsy and Anti-GAD Antibody *Aashit Shah, Maysaa Basha, Marie Atkinson, Sandeep Mittal*

**P02.158** Anti-NMDA Receptor Encephalitis Presenting as Partial Seizures with Delayed Onset of Mood Disturbance *Daniel Weber, Pomipal Anprasertporn, Deepti Chrusciel, Sean Goretzke*

**P02.159** Vague and Nonspecific Symptoms in Patients with Concern for Epilepsy – A Benign Phenomenon or a Manifestation of Seizure Activity? *Christian Robles, Selim Benbadis*

### Epilepsy: Diagnosis

**P02.160** Injury Occurrence in the Epilepsy Monitoring Unit: Psychogenic Nonepileptic Versus Epileptic Seizures *Marie Atkinson, Aashka Shah, Karthika Hari, Kimberly Schaefer, Aashit Shah*

**P02.161** Electroencephalographic Correlation in Postanoxic Myoclonus: A Case Series *Jocelyn Cheng*

**P02.162** Usefulness of Ambulatory EEG Immediately Following Inpatient EEG-Video *Alberto Figueroa, Robert Malka, Selim Benbadis*

**P02.163** Diagnostic Yield as a Quality Measure in the Epilepsy Monitoring Unit *Sarah Stone, Jane Boggs*

**P02.164** Postictal Nose-Wipe in Localization of Bitemporal Lobe Seizures *Barbara Hager, Samuel Potolicchio*

**P02.165** The Pleomorphism of Electroencephalogram in Non-Convulsive Status Epilepticus *Analia Calle, Juan Manuel Racosta, Maria Elena Fontela, Maria Gonzalez Toledo, Agustin Jauregui, Francisco Muñoz Giacomelli, Fatima Pagani Cassara, Alfredo Thomson*

**P02.166** Treatment Approaches in Non-Convulsive Status Epilepticus *Catherine Ham, Elizabeth Waterhouse*

**P02.167** Sleep/Wake and Diurnal Variations of Seizure Evolution in Pediatric Patients *Tobias Loddenkemper, Sriam Ramgopal, Aneri Shah, Marcin Zarowski, Martina Vendrame, Andreas Alexopoulos, Elaine Wyllie, Sanjeev Kothare*

**P02.168** Descriptive Analysis of the Posture and Movement in Psychogenic Non-Epileptic Seizures *David Lardizabal, Deepti Bahl, Sean Lanigar, Pradeep Sahota*

**P02.169** Tilt Table Test & Misdiagnosis of Epilepsy *Deepali Jain, Ali Bozorg*

### Child Neurology/Developmental Neurobiology: Diagnosis

**P02.170** Primary Myoclonus-Dystonia: A Diagnosis Often Missed in Children *Debabrata Ghosh, Shalaka Indulkar*

**P02.171** Detection of Anti-Folate Receptor Antibodies in the Serum and CSF of Cerebral Folate Deficiency Patients *William Langley, Keith Hyland, Lauren Mylacraine, John Shoffner*

**P02.172** Episodic Leukoencephalopathy Due to Novel Mitochondrial Complex I NDUV1 Gene Mutations *Elizabeth Sekul, Suzanne Strickland, David Flannery, Ramon Figueroa, Adeline Vanderver*

**P02.173** Infantile Spasms and Hypsarrhythmia in a Child with Isolated Sulfite Oxidase Deficiency *Jimmy Holder, Satish Agadi, Michael Quach*

**P02.174** Case of Infantile-Onset SCA-5 and a Novel SPTBN2 Mutation *Eugenia Ho, Francois Jacob, Basil Darras, Mayra Martinez-Ojeda, Alcy Torres, Omar Khwaja*

**P02.175** Intracranial Optic Nerve Enlargement in Infantile Krabbe's Disease *Shreyansh Shah, Santosh Murthy, Varina Wolf, Elizabeth Freeman, Timothy Lotze*

### Child Neurology/Developmental Neurobiology

**P02.176** Frequency of Urinary Complications in Children Treated with a Traditional Ketogenic Diet *Gloria Diaz-Medina, Susan Eckert, Katherine Nickels, Elaine Wirrell*

**P02.177** Trihexyphenidyl Has Cognitive Side Effects in Children with DYT1 Dystonia *Jennifer Cialone, Joanna Blackburn, Jonathan Mink*

**P02.178** Seizures Presenting as Apnea in Near Term Neonates *Dimitrios Arkilo, Sohail Malek, Sonya Wang, Tomo Tarui*

**P02.179** Balint Syndrome in the Pediatric Population: A Case Report of Three Patients *Hitha Amin, Steven Ehrreich, Jane Kelly, Paul Leppy, H. Hutchison*

**P02.180** Neonatal Radial Nerve Palsy *Karen Odrzywolski, Jennifer Mulbury*

**P02.181** MRI Findings with Duplication of 17q12 Chromosome Region in a 17 Year Old *Olimpia Carbutar, Alma Bicknese*

### Clinical Aspects of Ischemic Stroke and Microbleeds

**P02.182** Coated-Platelet Levels Are Associated with Hypertension in Patients with Transient Ischemic Attack *Calin Prodan, Andrea Vincent, George Dale*

**P02.183** Risk Factors Associated with 30-Day Readmission Vary among Stroke Subtypes *Jaskaran Rakkar, David LaBorde, Jennifer Takesaka, Steven Culler, Fadi Nahab*

**P02.184** Variance in Interpretation and Treatment Choices among Physicians in Patients with Stroke and Advanced Health Care Directives *Stanley Kim, Saqib Chaudhry, Tariq Janjua, Gustavo Rodriguez, Jefferson Miley, Masaki Wantabe, Guven Uzun, Benjamin Connolly, M. Fareed Suri, Adnan Qureshi*

**P02.185** Coated-Platelet Levels and Cerebral Microbleeds in Patients with Non-Lacunar Brain Infarction *Calin Prodan, David Gordon, George Dale*

**P02.186** Using Standardized Web Based Tests in Clinical Trials To Improve Investigator and Coordinator Protocol Familiarity: Experience from Antihypertensive Treatment of Acute Cerebral Hemorrhage II Trial *Bo Connolly, Catherine Dillon, Jaemyung Kim, Lynn Patterson, Yuko Palesch, Adnan Qureshi*

**P02.187** GIS Analysis of Access to VA Acute Stroke Care *Michael Phipps, Huangang Jia, Eric Litt, Diane Cowper, Xinping Wang, W. Bruce Vogel, Glenn Graham*

**P02.188** Cerebral Air Embolism with Upper Endoscopy: Two Patients, Three Events *Reid Taylor, Cindy Benton, Alexander Schneider*

**P02.189** Carotid Artery Disease Influences the Severity of White Matter Hyperintensity in Patients with Acute Lacunar Infarcts *Orlanda Goh, Yohanes Ting, Ivane Chew, Maznah Marmin, Lynn Wiryasaputra, Kaavya Narasimhalu, Nagaendran Kandiah*

**P02.190** Pulmonary Arteriovenous Fistula (P-AVF): A Rare but an Important Cause of Stroke *Kogul Arumathurai, Borna Bonakdarpour, Daniel Korya, Bruce Coull*

**P02.191** Isolated Hand Paralysis Due to Stroke in Precentral Knob Region *Ashish Vyas, Robert Staudinger, Richard Hanson*

### Management of Brain Attack

**P02.192** Intravenous Thrombolysis in 3-4.5 Hours: Utilization and Outcomes – Analysis of the Minnesota Stroke Registry *Wondvossen Tekle, Saqib Chaudhry, Ameer Hassan, James Peacock, Kamakshi Lakshminarayan, Albert Tsai, Russell Luepker, David Anderson, Adnan Qureshi*

**P02.193** CT Angiography and Perfusion Studies Do Not Significantly Prolong the Door-to-Needle Times for Acute Stroke Patients Treated with Intravenous Thrombolytics *Amaal Starling, Timothy Ingall, Bart Demaerschalk, Maria Aguilar, Bert Vargas, David Dodick, Terri Kieman, Dan Capampangan*

**P02.194** A Regional Assessment of Mismatch between Joint Commission Certified Stroke Centers and Population Requirements *Bo Connolly, Will Meland, Saqib Chaudhry, Foad AbdAllah, Maryam Ahmed, Jacob Reshetar, Adnan Qureshi*

**P02.195** Intravenous Thrombolysis Administered by Vascular vs. Non-Vascular Neurologists in a Statewide Telestroke Network *Shadi Yaghi, Salah Keyrouz, Archana Hinduja, Shuja Rayaz, Nicolas Bianchi*

**P02.196** Extending Therapeutic Window for Intravenous Thrombolysis to 4.5 Hours Remains Safe and Effective in Asian Acute Ischemic Stroke Patients *Leonard Yeo, Prakash Paliwal, Ben Wakerley, Aftab Ahmad, Kay Ng, Loh Pei Kee, Teoh Hock Luen, Bernard Chan, Vijay Sharma*

**P02.197** Antihypertensive Medication in Suspected Stroke Patients in Pre-Hospital Settings in United States ATACH Investigators

**P02.198** Admission Leukocytosis Is Not Associated with Early Response to Tissue Plasminogen Activator in Patients with Acute Ischemic Stroke *Michael Gillette, James Siegler, Andre Kumar, Amelia Boehme, Sheryl Martin-Schild, Karen Albright*

## Poster Session II

**P02.199** Off-Label Use of Intravenous t-PA May Be Safe in Select Patients *Claude Nguyen, Elizabeth Jones, Edward Kuo, Hui Peng, Renga Pandurengan, Navdeep Sangha, Osman Mir, Yazan Alderazi, Tzu-Ching Wu, Vivek Misra, George Lopez, Andrew Barreto, Sean Savitz, James Grotta, Nicole Gonzales*

**P02.200** Hyperacute Stenting for Acute Ischemic Stroke Is Associated with a High Rate of Symptomatic Intracranial Hemorrhage *Alexander Fong, Eric Bershad, Hesham Morsi, Hashem Shaltoni, Michel Mawad, Alexander Georgiadis, Jose Suarez, Chethan Venkatasubba Rao*

**P02.201** Clinical and Radiological Presentation of Posterior Reversible Encephalopathy Syndrome in Systemic Lupus Erythematosus *Rainier Rodriguez-Balaguer, Maria Del Mar Saniger-Alba, Erwin Chiquete, Jesus Higuera Calleja, Carlos Cantu-Brito*

### Subarachnoid Hemorrhage and Intracerebral Hemorrhage

**P02.202** High Risk of Symptomatic Vasospasm in Unaffected Arteries in Subarachnoid Hemorrhage Patients Receiving Targeted Endovascular Treatment for Focal Symptomatic Vasospasm *Wondwossen Tekle, Habib Qaiser, Saqib Chaudhry, Ameer Hassan, Muhammad Suri, Adnan Qureshi*

**P02.203** Outcomes of Transferred Versus Direct-Admit Hemorrhagic Stroke Patients at a Large Comprehensive Stroke Center *David Tong, David Grosvenor, Ann Bedenk, Jeff Thomas, Jack Rose, Nobl Barazangi*

**P02.204** Factors Associated with Early Neurologic Deterioration after Primary Intracerebral Hemorrhage: A Systematic Review of the Literature *Adrian Specogna, Tanvir Turin, Scott Patten, Michael Hill*

**P02.205** Subarachnoid Hemorrhage with Severe Vasospasm after Bevacizumab Therapy: A Case Report *Ramin Zand, Shoeleh Kazemi, John Barr, Mansour Afshani*

**P02.206** Resumption of Antithrombotic Therapy Following Hemorrhagic Stroke in Patients with Atrial Fibrillation *Nicholas Perros, Michael Schneck*

**P02.207** Higher Body Mass Index Predicts Better Outcomes after Intracerebral Hemorrhage *Neil Rosenberg, Storm Liebling, Andrew Naidech*

**P02.208** Delayed Asystole in a Patient with Aneurysmal Subarachnoid Hemorrhage Triggered by Surgical Intervention *Svetlana Miacinovic, Jonathan White, Christopher Madden, Adam Griffith, Kim Rickert, Eugene Gu*

**P02.209** Outcome Differences in Patients Transferred from Referring Hospital Emergency Department with Intracerebral Hemorrhage Versus Another Medical-Surgical Illness: A Case Controlled Study *Umer Akbar, Fred Rincon*

**P02.210** Influence of Urine Output on Magnesium Level in Aneurysmal Subarachnoid Hemorrhage *Eugene Gu, Daniel Klinger, Benjamin Boudreaux, James Botros, Adam Griffith, Kim Richert, Jonathan White, Duke Samson*

**P02.211** Risk Factors and Long-Term Outcome in Young Adults with Spontaneous Intracerebral Hemorrhage *Man Mohan Mehndiratta, Kamlesh Chakravarty, Prachi Mehndiratta*

### Critical Care / Emergency Neurology / Trauma

**P02.212** Serial FOUR Score and Glasgow Coma Score in Critically Ill Medical Patients: Relation to Outcome *Arunodaya Gujjar, P. Jacob, R. Nandhagopal, S. Ganguly, Ammar Obaidey, Abdullah Al-Asmi*

**P02.213** Implementation of a Model of Robotic-Telepresence (RTP) in the Neuro ICU and Effect on Critical Care Team Satisfaction *Fred Rincon, Matthew Vibbert, Dennis Caliguri, Valerie Childs, Robin Fry, Jacqueline Urtecho, Jack Jallo*

**P02.214** Effect of Testing Environment on Pre-Participation Reaction Time in High School Athletes *Andrea Almeida, Carlo Milani, Jenifer Sudkamp, Roberta Bell, Gregory Stewart*

**P02.215** Virtual Family Meetings in the ICU Setting *Adam De Havenon, Casey Petersen, Robert Hoesch*

**P02.216** Epidemiological Trends of Adult Respiratory Distress Syndrome (ARDS) after Traumatic Brain Injury in the United States *Sayantani Ghosh, Saugat Dey, Mitchell Maltenfort, Jacqueline Urtecho, William McBride, Michael Moussouttas, Jack Jallo, Rodney Bell, Fred Rincon*

**P02.217** Prevalence of Depression and Anxiety Symptoms among Families of Survivors in a Neurosciences Intensive Care Unit *David Hwang, Daniel Yagoda, Paul Currier, Hilary Perrey, Tara Tehan, Mary Guanci, Lillian Ananian, Robin Lipkis-Orlando, J. Perren Cobb, Jonathan Rosand*

**P02.218** The Impact of a Neurohospitalist Service on Patient and Educational Outcomes at an Academic Medical Center *Vanja Douglas, Brian Scott, S. Josephson*

**P02.219** Evaluating Pain, Sedation and Delirium in the Neurologically Critically Ill *Amy Y. X. Yu, Jeanne Teitelbaum, Yoanna Skrobik*

**P02.220** Comparison between Institutionally-Defined Clinical Criteria and CDC-Criteria for the Diagnosis of Ventriculostomy-Related Infection *Barry Czeisler, H. Alex Choi, KuangHa Guo, Paul Bernstein, Mary Presciutti, Hector Lantigua, Amanda Carpenter, John Zhang, Sang-Bae Ko, J. Michael Schmidt, Jan Claassen, Stephan Mayer, Kiwon Lee, E. Sander Connolly, Neeraj Badjatia*

**P02.221** Accuracy of Stroke Identification by EMS Dispatch Units: An Analysis of National Emergency Medical Services Information System Data (NEMSIS) *Vikram Jadhav, Swaroop Pawar, Saqib Chaudhry, Ameer Hassan, Gustavo Rodriguez, M. Fareed Suri, Adnan Qureshi*

**P02.222** Significance of Admission Arterial Hyperoxia in Critically-Ill Stroke Patients *Joon Kang, Mitchell Maltenfort, Matthew Vibbert, Jacqueline Urtecho, Jack Jallo, Michael Moussouttas, William McBride, Carissa Pineda, Diana Tzeng, Rodney Bell, Fred Rincon*

**P02.223** A National Assessment of Factors Influencing Emergency Medical Services Times among Acute Stroke Patients *Vikram Jadhav, Swaroop Pawar, Saqib Chaudhry, Ameer Hassan, Gustavo Rodriguez, M. Fareed Suri, Adnan Qureshi*

**P02.224** Increased Hemoglobin A1c Level Is Associated with a Better Outcome in Patients with Spontaneous Intracerebral Hemorrhage *Mohammad Ibrahim, Mohammad Moussavi, Daniel Korya, Usama Siddique, Spozhmy Panezai, Martin Gizzi, Jawad Kirmani*

**P02.225** Neuroprotective Role of Endogenous Serum Magnesium on the Severity of Spontaneous Intraparenchymal Hemorrhage *David Turkel-Parrella, Mohammad Moussavi, Cecilia Carlowicz, Sneh Kakileti, Karuna Bitra, Theja Channapragata, Mohammad Ibrahim, Jawad Kirmani*

**P02.226** A Case of Cerebral Venous Thrombosis in the Setting of Romiplostim Use *Pravin George, Christine Ahrens, Joao Gomes*

**P02.227** Predictors of Hemorrhage Volume and Disability after Perimesencephalic Subarachnoid Hemorrhage *Andrew Naidech, Neil Rosenberg, Matthew Maas, Bernard Bendok, H. Batjer, Alexander Nemeth*

**P02.228** A Low Threshold Needed To Diagnose and Treat NMDA Receptor Antibody Associated Limbic Encephalitis *Nurkia Peguero, Chilvana Patel, Sean Hwang, Nishtha Sarren, Seth Koenig, Cynthia Harden*

**P02.229** Successful Immunoglobulin Desensitization after Anaphylactic Shock in a Patient with Chronic Inflammatory Demyelinating Polyneuropathy *Deepa Malaiyandi, Pramod Gupta, Dhruvil Pandya, Alexandru Barboi*

**P02.230** Is Migraine Headache Associated with Concussion in Athletes? A Case-Control Study *James Eckner, Jeffrey Kutcher, Allison Weisberg, Max Zeiger, Steven Broglio*

### Surgical and Medical Treatment of Movement Disorders

**P02.231** Dopaminergic Substitution Therapy after Subthalamic Deep Brain Stimulation: An Open Label Randomized Multicentric Controlled Trial *Jean Philippe Azulay, Christine Breffel Courbon, Luc Defebvre, Tatiana Witjas, Christine Tranchant, Elisabeth Joue, Fabienne Dry, Caroline Moreau, Alexandre Eusebio, Olivier Rascol*

**P02.232** Long-Term Neuropsychological Outcomes of Staged Subthalamic Nuclei Stimulation in Patients with Parkinson's Disease *Bryan Bernard, Glenn Stebbins, Roy Bakay, Leonard Verhagen Metman*

**P02.233** Analysis of Stereotactic Accuracy in Patients Undergoing Deep Brain Stimulation Using Nexframe and Leksell Frame *Maarten Bot, Pepijn van den Munckhof, Roy Bakay, Diane Sierens, Emmanuel Nenonene, Leonard Verhagen Metman*

**P02.234** Subthalamic Deep Brain Stimulation Modulates Small-Fiber Dependent Sensory Thresholds in Parkinson's Disease *Daniel Ciampi De Andrade, Jean-Pascal Lefaucheur, Ricardo Galhardoni, Karine Ferreira, Anderson de Paiva, Edson Bohr-Seng-Shu, Luciana Alvarenga, Martin Myczkowski, Marco Marcolin, Silvia de Siqueira, Erich Fonoff, Egberto Barbosa, Manoel Teixeira*

**P02.235** Low Frequency Repetitive Deep Transcranial Magnetic Stimulation Improves Motor Performance in Patients with Parkinson's Disease *Oren Cohen, Abraham Zangen, Gilad Yahalom, Yael Orlev, Sharon Hassin-Baer*

**P02.236** Effects of Bilateral Subthalamic Nucleus Deep Brain Stimulation on Impulse Control and Repetitive Behavior Disorders in Parkinson's Disease: The Results of 89 Patients *Tae Jung Kim, Beom Jeon*

**P02.237** Use of Rechargeable DBS Implantable Pulse Generators in Patients with Movement Disorders: Patient Satisfaction and Stimulation Parameters *Olga Waln, Joohi Jimenez Shahed*

**P02.238** Impact of Deep Brain Stimulation on Quality of Life in Parkinson's Disease: Long-Term Follow-Up *Franck Durif, Dominique Morand, Bruno Pereira, Jean-Jacques Lemaire, Philippe Derost, Miguel Ulla, Tatiana Witjas, Jean Regis, Frédérique Fluchère, Jean Azulay*

## Poster Session II

**P02.239** DJ-1 Based Peptide as a Novel Neuroprotective Strategy for Parkinson's Disease *Nirit Lev, Yael Barhum, Tali Ben-Tzur, Eldad Melamed, Daniel Offen*

**P02.240** Disease Modifying Strategy Based upon Iron Chelation in Parkinson's Disease: A Translational Study *David Devos, Caroline Moreau, Jerome Kluz, Charlotte Laloux, Maud Petrault, Jean-Christophe Devedjian, Gilles Ryckewaert, Guillaume Garcon, Nathalie Rouaix, Patrice Jissendi, Kathy Dujardin, Alexandre Kreisler, Clémence Simonin, Alain Destee, Luc Dèfebre, Philippe Marchetti, Regis Bordet*

### Movement Disorders: Referral Patterns and Treatment Outcomes

**P02.241** Fox Trial Finder: An Innovative Web-Based Trial Matching Tool To Facilitate Clinical Trial Recruitment *Claire Meunier, Danna Jennings, Christine Hunter, Todd Sherer*

**P02.242** Neurologist Care in PD Is Associated with Fewer PD Related Hospitalizations *Allison Wright Willis, Mario Schootman, Joel Perlmutter, Brad Racette*

**P02.243** Willingness of Parkinson Disease Patients To Participate in Research Using Internet-Based Technology *David Shprecher, Katia Noyes, Kevin Biglan, Dongwen Wang, E. Ray Dorsey, Roger Kurlan, M. Jacob Adams*

**P02.244** Patient Compliance with Parkinson's Disease Home Monitoring System *Danielle Filipkowski, Dustin Heldman, Alberto Espay, Jaya Mishra, Thomas Mera, Joseph Giuffrida*

**P02.245** Institutional Outcomes in Patients Evaluated for Possible Normal Pressure Hydrocephalus: Which Factors Are Predictive of Positive Response to Ventriculoperitoneal Shunt Placement? *Jessica Tate, Mustafa Siddiqui*

**P02.246** Immediate Versus Delayed Treatment of Psychogenic Movement Disorders with Short-Term Psychodynamic Psychotherapy *Aikaterini Kompoliti, Burgess Wilson, Glenn Stebbins*

### Neuro-Ophthalmology/ Neuro-Otology

**P02.247** Acute Vestibular Syndrome from Demyelinating Lesions *John Pula, Jorge Kattah, David Newman-Toker*

**P02.248** Left Entorhinal Cortex and Amygdala Hypermetabolism in Mal de Debarquement Syndrome *Yoon-Hee Cha, Shruthi Chakrapani, Robert Baloh*

**P02.249** Small Posterior Fossa Strokes Causing Severe Vertigo – Clinical Signs and Anatomic Distribution of the "Lacunar" Acute Vestibular Syndrome *Jorge Kattah, John Pula, Deepak Nair, Sarah Ying, David Newman-Toker*

**P02.250** The Use of the Dix-Hallpike Test and the Canalith Repositioning Maneuver in Emergency Department Dizziness Presentations: A Population-Based Study *Kevin Kerber, William Meurer, Devin Brown, Lynda Lisabeth, Brian Callaghan, A. Mark Fendrick, Lewis Morgenstern*

**P02.251** Vestibular Electrical Evoked Potential (VEEP) Findings in Normal Controls and in Patients with Vestibular Dysfunction *Benn Smith, Michael Cevette, Jan Stepanek, Daniela Cocco, Gaurav Pradhan, Kenneth Brookler, David Zapala, Mark Ross*

**P02.252** Impairment of the Vestibulo-Cerebellar Interaction in Friedreich's Ataxia *David Szmulewicz, Hamish MacDougall, Ian Curthoys, Stephen O'Leary, Mark Paine, Phil Cremer, Martin Delatycki, Louise Corben, Michael Halmagyi*

**P02.253** Gray-Matter Decrease in Chronic Somatoform Vertigo – A VBM Study *Steffen Naegel, Dagny Holle, Felix Wurthmann, Benedict Schulte Steinberg, Hans-Christopher Diener, Mark Obermann*

**P02.254** Perceived Head Orientation and Eye Movements Are Abnormal in Vestibular Migraine during Combined Canal-Otolith Stimulation *Richard Lewis, Joanne Wang, David Balkwill*

**P02.255** Hypertrophic Degeneration of the Inferior Olive Yields Erroneous Internal Estimates of Direction of Gravity *Alexander Tamutzer, Antonella Palla, Sarah Marti, Bernhard Schuknecht, Dominik Straumann*

**P02.256** First Incidence Study of Meniere's Disease (MD) in South America *Guillermo Videla, Ana Toral, Ana Bissoni, Diego Giunta, Jimena Vicens, Juan Ignacio Rojas, Jorge Norscini, Edgardo Cristiano*

**P02.257** Convergence Insufficiency Responsive to Bilateral Subthalamic Nucleus Deep Brain Stimulation in Parkinson's Disease *Catherine Cho, Ron Alterman, Tiffany Morris, Steven Moore, Janet Rucker*

**P02.258** Saccadic Abnormalities in Familial Parkinson's Disease Associated with  $\alpha$ -Synuclein (SNCA) Gene Mutation (PARK1) *Elena Pregigiani, R. Leigh, David Zee, Antonio Federico, Pietro Piu, Alessandra Rufa*

**P02.259** Could Different Smooth Pursuit and Saccadic Abnormalities in Spinocerebellar Ataxia Type 3 (SCA3) Be Explained by a Single Deficient Mechanism? *Carlos Gordon, Ari Zivotofsky, Avi Caspi*

**P02.260** Increasing Interval between Injections after Prolonged Onabotulinum Toxin Type A Use for Blepharospasm *Lindsey DeLott, Wayne Comblath*

**P02.261** Comparison of the Etiology and Prognosis of Fourth and Sixth Cranial Nerve Palsies *Edward Atkins, Jagoda Gorka, Ying Wang, Jocelyn Zurevinsky*

**P02.262** Memantine Improves Fixation Stability in Recessive Cerebellar Ataxia with Saccadic Intrusions *Francesca Rosini, Pamela Federighi, Alessandro Serra, R. Leigh, Pietro Piu, Antonio Federico, Alessandra Rufa*

**P02.263** Fluctuating Ophthalmoplegia Presenting as a Treatable Manifestation of Myotonia Congenita *Karen Odrzywolski, Nicholas Johnson, Paul Twydell*

### Infections/AIDS/Prion Disease

**P02.264** Ramsey Hunt Syndrome with Dysphagia with MRI Evidence of Brain Stem and Upper Cervical Cord Involvement *Shyama Satyan, Andrew Bragdon, Burk Jubelt*

**P02.265** Recurrent Herpes Simplex Type-2 Meningoencephalitis as a Stroke Mimicker *Raghav Govindarajan, John Morren, Chetan Malpe, Efrain Salgado*

**P02.266** The Relationship between Epstein-Barr Virus Infection and Multiple Sclerosis Detected by Indirect Immunofluorescence Assay *Shanchao Zhang, Lei Liu, Zhaohui Song, Jiawei Wang*

**P02.267** Case Report: HIV-2 Encephalitis in a Patient with Subacute Cognitive Decline *Jennifer Lyons, Richard Phillips, Brian Wood, Jennifer Johnson, Rebecca Folkerth, Danny Milner, Joshua Klein*

**P02.268** Varicella Zoster Virus Myelitis: A Report of Two Cases with Unusual Presentation *Juan Cuello, Pedro Rodriguez Cruz, Fernando de Orly, Clara De Andres*

**P02.269** Foot Drop and Urinary Retention Following Disseminated Varicella Zoster Infection *Srikanth Damodaram, Akshar Patel, Ganesh Kudva, Stanley Iyadurai*

**P02.270** Ganciclovir-Resistant Human Herpesvirus-6 Encephalitis in a Liver Transplant Patient: A Case Report *Kelly Baldwin*

**P02.271** PML IRIS: A Difficult Diagnosis *Deepa Kannaditharayil*

**P02.272** Postmortem MRI in Progressive Multifocal Leukoencephalopathy *Govind Nair, Souheil Inati, Sarah Kranick, Martha Quezada, Irini Sereti, Virginia Sheikh, Daniel Reich, Avindra Nath*

**P02.273** Progressive Multifocal Leukoencephalopathy in a Patient with Sarcoidosis *Wei-Qiao Liu, Silke Cresswell*

### Neuroscience Research Prize Recipients

**P02.274** The Neuroprotective Effects of Docosahexaenoic Acid and Lithium Chloride: A Novel Pathway Implicated in Alzheimer's Disease *Sean Oh*

**P02.275** Optogenetic Interrogation of Prefrontal Cortex Dopamine D1 Receptor-Containing Neurons as a Technique to Restore Timing: A Novel Approach to Treat Prefrontal Disorders *John Solder*

**P02.276** Cold Shock Protein: A New Target for Attenuating Ischemic Stroke *Christie Wang*

## Education Program Evaluation Forms— Now Online Only!

In an effort to be conscious of both the environment and your time, all 2012 Annual Meeting Education Program evaluation forms will be handled electronically only—online and at your convenience. Simply log on to AAN.com after you've attended your applicable course or program to complete the form and receive your CME.



# Presidential Plenary Session

9:00 a.m.–12:00 p.m.



**Moderator: Lisa M. DeAngelis, MD, FAAN**  
**Chair, Science Committee**

Features the AAN's premier lecture awards for clinically relevant research and a presentation by a leading lecturer. Top researchers speak on some of the most significant findings in neurology in 2012.



**Presidential Lecture**

**Epigenetics: A New Science of Brain and Behavior**

Mark F. Mehler, MD, FAAN  
*Albert Einstein College of Medicine,  
Bronx, NY*



**George C. Cotzias Lecture**

*Endowed by Roche Pharmaceuticals*

**Neurology Collides with the RNA World: Wide-ranging Impact, From Intellectual Disability to Motor Neuron Disease**

Robert B. Darnell, MD, PhD  
*Rockefeller University, New York, NY*



**Sidney Carter Award in Child Neurology Lecture**

*Endowed by an anonymous donor*

**Following the Red Thread**

Rose Mary N. Boustany, MD  
*Duke University, Durham, NC  
American University of Beirut, Lebanon*



**Robert Wartenberg Lecture**

**Stroke Prevention: An Unfinished Story with New Perspectives**

Ralph L. Sacco, MD, MS, FAHA, FAAN  
*University of Miami, Miami, FL*

**For Full Abstracts and Bios for Plenary Speakers**  
Visit [www.aan.com/view/plenary](http://www.aan.com/view/plenary)



**S01**  
**Multiple Sclerosis:**  
**Clinical Trials:**  
**Clinical Outcomes**
**1:00 p.m. Presentation of the John Dystel Prize for Multiple Sclerosis Research Award**

Recipient:  
**Richard Ransohoff, MD**  
 Cleveland, OH

**1:30 p.m. S01.003**

Clinical Efficacy of BG-12 in Relapsing-Remitting Multiple Sclerosis (RRMS): Data from the Phase 3 CONFIRM Study *Robert Fox, David Miller, J. Theodore Phillips, Mariko Kita, Michael Hutchinsson, Eva Havrdova, Minhua Yang, Ray Zhang, Vissia Vigiotta, Katherine Dawson*

**1:45 p.m. S01.004**

Efficacy and Safety Results from Comparison of Alemtuzumab and Rebif® Efficacy in Multiple Sclerosis II (CARE-MS II): A Phase 3 Study in Relapsing-Remitting Multiple Sclerosis Patients Who Relapsed on Prior Therapy *Jeffrey Cohen, Cary Twyman, Douglas Arnold, Alasdair Coles, Christian Confavreux, Edward Fox, Hans Hartung, Eva Havrdova, Krzysztof Selmaj, Howard Weiner, Tamara Miller, Stephen Lake, David Margolin, Michael Panzara, Alastair Compston*

**2:00 p.m. S01.005**

A Randomized, Double-Blind, Placebo-Controlled Study To Evaluate the Safety and Efficacy of Daclizumab HYP Monotherapy in Relapsing-Remitting Multiple Sclerosis: Primary Results of the SELECT Trial *Ralf Gold, Gavin Giovannoni, Krzysztof Selmaj, Eva Havrdova, Xavier Montalban, Ernst-Wilhelm Radue, Dusan Stefanek, Randy Robinson, Katherine Riester, Jacob Elkins, Gilmore O'Neill*

**2:15 p.m. S01.006**

Efficacy and Safety Results from Comparison of Alemtuzumab and Rebif® Efficacy in Multiple Sclerosis I (CARE-MS I): A Phase 3 Study in Relapsing-Remitting Treatment-Naïve Patients *Alasdair Coles, Vesna Brinar, Douglas Arnold, Jeffrey Cohen, Christian Confavreux, Edward Fox, Hans Hartung, Eva Havrdova, Krzysztof Selmaj, Howard Weiner, Gavin Giovannoni, Miroslav Stojanovic, Stephen Lake, David Margolin, Michael Panzara, Alastair Compston*

**2:30 p.m. S01.007**

Clinical Efficacy of Laquinimod for the Treatment of Multiple Sclerosis: Pooled Analyses from the ALLEGRO and BRAVO Phase III Trials *Timothy Vollmer, Giancarlo Comi, Per Solberg Sorensen, Douglas Arnold, Massimo Filippi, Olena Statinova, Tetyana Kobys, Elke Becker, Douglas Jeffery, Xavier Montalban, Ludwig Kappos, Alexey Boyko, Krzysztof Selmaj, Frauke Zipp, Eva Havrdova, Jeffrey Cohen*

**S02**  
**Treatment of**  
**Parkinson's Disease**
**1:00 p.m. Presentation of the Movement Disorders Research Award**

Recipient:  
**Caroline Tanner, MD, PhD**  
 Sunnydale, CA

**1:30 p.m. S02.003**

24 Months of Exercise Improves the Motor Symptoms in Parkinson's Disease *Daniel Corcos, Julie Robichaud, Fabian David, David Vaillancourt, Cynthia Poon, Miriam Rafferty, Cynthia Comella, Wendy Kohrt, Sue Leurgans*

**1:45 p.m. S02.004**

Methylphenidate for Gait and Attention Disorders in Advanced Parkinsonian Patients with Subthalamic Stimulation: A Multicentric Randomized, Double-Blind, Placebo-Controlled Study *Caroline Moreau, Arnaud Delval, Kathy Dujardin, Alain Destee, Regis Bordet, Luc Defebvre, David Devos, French Parkgait-II Study Group*

**2:00 p.m. S02.005**

Comparison of IPX066, a Novel Carbidopa-Levodopa (CD-LD) Extended-Release Formulation, and CD-LD-Entacapone (CLE) in Advanced Parkinson's Disease (ASCEND-PD Trial) *Fabrizio Stocchi, Ulrich Dillmann, Aaron Ellenbogen, Ann Hsu, Sarita Khanna, Robert Rubens, Grace Liang, Suneel Gupta*

**2:15 p.m. S02.006**

Does the Dose of Carbidopa Matter? A Randomized Clinical Trial in Parkinson's Disease *John Nutt, Jason Aldred, Lissa Brod*

**2:30 p.m. S02.007**

Medication Ordering Practices for Parkinson's Disease Patients Admitted to Hospital *Katie Wiltshire, Sarah Furtado, William Ghali, Scott Kraft*

**S03**  
**Reperfusion Therapy for**  
**Acute Ischemic Stroke**

**1:00 p.m. S03.001**  
 Intra-Arterial Thrombolysis for Acute Stroke in the Post-ECASS III Era: An Adjusted Meta-Analysis *William Powers*

**1:15 p.m. S03.002**

Thrombolytic Treatment Using Drip and Ship Treatment Paradigm among Acute Ischemic Stroke Patients in the United States: Outcomes and Impact on Regional Thrombolytic Utilization and Referral Patterns *Gustavo Rodriguez, Wordwossen Tekle, Saqib Chaudhry, Ameer Hassan, Muhammad Suri, Adnan Qureshi*

**1:30 p.m. S03.003**

Compliance to Guidelines by Emergency Medical Services in "Drip and Ship" Patients with In-Transit Intravenous Thrombolytic Infusion *Ganesh Asathambi, Saqib Chaudhry, Ameer Hassan, Gustavo Rodriguez, Muhammad Suri, Adnan Qureshi*

**1:45 p.m. S03.004**

Image Guided Patient Selection and Its Impact on Outcome: Results of the Penumbra Imaging Collaborative Study (PICS) *Osama Zaidat, Sean Meagher, Michael Brant-Zawadzki, Jeffrey Farkas, Reza Malek, Benjamin Crandall, Donald Frei, Ferdinand Hui, Michael Alexander, Brian Chong, Nazli Janjua, Darryn Shaff, Dileep Yavagal, Donald Heck, Tim Malisch, Aquilla Turk, III, Minako Hayakawa, Laszlo Miskolczi, Robert Tarr, Rafael Ortiz, Alois Zauner, Richard Klucznik, Christopher Zylak, Albert Yoo, Elan Muallem, Arani Bose, Siu Po Sit, For the PICS Investigators*

**2:00 p.m. S03.005**

Thrombolysis in Pediatric Population from the KID Database *Amer Alsheklee, Michelle Storkan, Ritesh Kaushal, Sonal Mehta, Elisha Feen, Salvador Cruz-Flores*

**2:15 p.m. S03.006**

Presence of Good Collateral Circulation Is a Good Predictor of Favorable Outcome after Intravenous Thrombolysis in Acute Anterior Circulation Ischemic Stroke *Leonard Yeo, Prakash Palivval, Ben Wakerley, Aftab Ahmad, Kay Ng, Loh Pei Kee, Teoh Hock Luen, Bernard Chan, Eric Ting, Vijay Sharma*

**2:30 p.m. S03.007**

Insular Stroke and Hemi-Orolingual Angioedema *Ralph Werner, Johannes Wohrle*

**S04**  
**Aging and Dementia:**  
**Therapeutic Interventions**
**1:00 p.m. Presentation of the Potamkin Prize for Research in Pick's, Alzheimer's, and Related Diseases**

Recipient:  
**Takeshi Iwatsubo, MD, PhD**  
 Tokyo, Japan

**1:30 p.m. S04.003**

Delphi Consensus on Landmarks for the Manual Segmentation of the Hippocampus on MRI: Preliminary Results from the EADC-ADNI Harmonized Protocol Working Group *Marina Boccardi, Martina Bocchetta, Liana Apostolova, Josephine Barnes, George Bartzokis, Gabriele Corbetta, Charles DeCarli, Leyla DeToledo-Morrell, Michael Firbank, Rossana Ganzola, Lotte Gerritsen, Wouter Henneman, Ronald Killiany, Nikolai Malykhin, Patrizio Pasqualetti, Jens Pruessner, Alberto Redolfi, Nicolas Robitaille, Hilka Soininen, Daniele Tolomeo, Lei Wang, Craig Watson, Henrike Wolf, Simon Duchesne, Clifford Jack, Giovanni Frisoni*

**1:45 p.m. S04.004**

Antipsychotic Use Is Not Associated with an Increased Burden of Cerebrovascular Pathology at Autopsy *Divya Singhal, Erin Abner, Frederick Schmitt, Peter Nelson, Gregory Jicha*

**2:00 p.m. S04.005**

Feasibility of MRI-Guided Pharmacologic Therapy for Idiopathic Normal Pressure Hydrocephalus (iNPH) *Norman Reiklin, Milos Ivkovic, Heather Katzen, Ilhami Kovanlikaya, Ahmet Bagci, Linda Heier, Ashish Raj, Noam Alperin*

**2:15 p.m. S04.006**

Frequency and Presentation of Multiple Pathology in Patients Enrolled in Alzheimer Clinical Trials *Bing Wei Wang, Ellen Lu, Ian R. A. Mackenzie, Michele Assaly, Claudia Jacova, Philip Lee, B. Lynn Beattie, Ging-Yuek Hsiung*

**2:30 p.m. S04.007**

Cost Implications of Early Treatment among Patients with Alzheimer's Disease – A Medicaid Perspective *David Geldmacher, Noam Kirson, Howard Birbaum, Sara Eapen, Alice Kate Ting, Vijay Joish*

**S05**  
**Anterior Horn: Basic**  
**Science and Genetics**
**1:00 p.m. Presentation of the Sheila Essey Award - An Award for ALS Research**

Recipient:  
**Christopher Shaw, MBChB, MD, FRACP**  
 London, United Kingdom

**1:30 p.m. S05.003**

Phenotype of Amyotrophic Lateral Sclerosis (ALS) and Frontotemporal Dementia with ALS (FTD/ALS) Associated with the GGGGCC Repeat Expansion in *<italic>C9ORF72</italic>* (*c9FTD/ALS*) *Kevin Boylan, Mariely DeJesus-Hernandez, Beth Rush, Pamela Desaro, Amelia Johnston, Thomas Kryston, Nicola Rutherford, Matt Baker, Zbigniew Wszolek, Dennis Dickson, Rosa Rademakers*

**1:45 p.m. S05.004**

The Population Based Prevalence and Phenotype of 9p21 Hexanucleotide Repeats in ALS/FTD *Susan Byrne, Aleksey Shatunov, Peter Bede, Marwa Elamin, Catherine Lynch, Kevin Kenna, Russell McLaughlin, Niall Pender, Daniel Bradley, Ammar Al-Chalabi, Orla Hardiman*

**2:00 p.m. S05.005**

Genetics of ALS in Italy: A Population-Based Study *Adriano Chio, Gabriella Restagno, Maura Brunetti, Irene Ossola, Andrea Calvo, Cristina Moglia, Bryan Traynor, Alan Renton, Elisa Majounie, Lucia Corrado, Sandra D'Alfonso, Gabriele Mora, Letizia Mazzini, PARALS Study Group*

**2:15 p.m. S05.006**

UBQLN2 Mutations in ALS and ALS/Dementia: A Genetic, Functional and Histopathological Analysis *Faisal Fecto, Han-Xiang Deng, Wenjie Chen, Seong-Tshool Hong, Kym Boycott, George Gorrie, Nailah Siddique, Yi Yang, Yong Shi, Hong Zhai, Hujun Jiang, Makito Hirano, Evadnie Rampersaud, Gerard Jansen, Sandra Donkervoort, Eileen Bigio, Benjamin Brooks, Kaouther Ajroud, Robert Sufit, Jonathan Haines, Enrico Mugnaini, Margaret Pericak-Vance, Teepu Siddique*

**2:30 p.m. S05.007**

Mutations in the Tail Domain of DYNC1H1 Cause Dominant Spinal Muscular Atrophy *Robert Baloh, Matthew Harms, Cassandra Ori-McKenney, Mariacristina Scoto, Elizabeth Tuck, Shaughn Bell, Duanduan Ma, Sophia Masi, Peggy Allred, Muhammad Al-Lozi, Mary Reilly, Lindsey Miller, Agnes Jani-Acsadi, Alan Pestronk, Michael Shy, Francesco Muntoni, Richard Vallee*

- S06**  
**Epilepsy: Epidemiology**  
**1:00 p.m. S06.001**  
The Nexus of Traumatic Brain Injury and Epilepsy in Veterans from Afghanistan and Iraq *Mary Jo Pugh, Megan Amuan*
- 1:15 p.m. S06.002**  
Why Women with Epilepsy Discontinue Various Methods of Contraception: Interim Analysis from the Epilepsy Birth Control Registry *Anielle Saporta, Anne Davis, W. Hauser, Kaitlyn Cahill, Kristen Fowler, Andrew Herzog*
- 1:30 p.m. S06.003**  
Prevalence Ratios for Unintended Pregnancy on Various Contraceptive Methods and AEDs in Women with Epilepsy: Interim Analysis from the Epilepsy Birth Control Registry *Andrew Herzog, Anne Davis, W. Hauser, Anielle Saporta, Kaitlyn Cahill, Kristen Fowler*
- 1:45 p.m. S06.004**  
Injuries amongst Adolescents with Childhood-Onset Epilepsy Compared to Sibling Controls *Christine Baca, Barbara Vickrey, Stefanie Vassar, Aaron Cook, Anne Berg*
- 2:00 p.m. S06.005**  
The Epidemiology of Status Epilepticus in the United States *Bhavpreet Dham, Barry Milcarek, Krystal Hunter, Fred Rincon*
- 2:15 p.m. S06.006**  
Nonconvulsive Status Epilepticus: Value of a Benzodiazepine Trial for Predicting Outcomes *Allan Krumholz, Jennifer Hopp, Ana Sanchez, Elizabeth Barry, George Hart*
- 2:30 p.m. S06.007**  
Prediction of Antiepileptic Drug Side Effects in Patients with Epilepsy *Jonathan Dykeman, Mark Lowerson, Peter Faris, Nathalie Jette, Neelan Pillay, Brian Klassen, Alexandra Hanson, William Murphy, Paolo Federico, Samuel Wiebe*
- S07**  
**Peripheral Neuropathy Advances**  
**1:00 p.m. S07.001**  
A Randomized, Double Blind, Controlled Trial of Intravenous Immunoglobulins Versus Intravenous Methylprednisolone in Chronic Inflammatory Demyelinating Polyradiculoneuropathy (IMC Study) *Eduardo Nobile-Orazio, Dario Cocito, Stefano Jann, Antonino Uncini, Ettore Beghi, Giovanni Antonini, Raffaella Fazio, Francesca Gallia, Angelo Schenone, Ada Francia, Davide Pareyson, Lucio Santoro, Stefano Tamburin, Roberta Macchia, Chiara Guameri, Guido Cavaletti, Fabio Giannini, Mario Sabatelli*
- 1:15 p.m. S07.002**  
Evaluation of Dermal Myelinated Fibers in Diabetic Polyneuropathy *M. Myers, Jun Li, Kay Artibe, Amanda Peltier*
- 1:30 p.m. S07.003**  
Useful Biomarkers for the Diagnosis of Painful Diabetic Neuropathy *Hsin-Lin Cheng, Jacqueline Dauch, Michael Porzio, Brandon Yanik, Wilson Hsieh, A. Smith, J. Singleton, Eva Feldman*
- 1:45 p.m. S07.004**  
Pure Neural Leprosy: Clinical and Electrophysiologic Features of Patients Evaluated in a Brazilian Tertiary Centre of Neuromuscular Diseases *Pedro Tomaselli, Marco Frade, Norma Foss, Osvaldo Nascimento, Vanessa Marques, Amilton Barreira, Wilson Marques*
- 2:00 p.m. S07.005**  
Assessment of Demyelination in Charcot-Marie-Tooth Disease Type 1A Via Magnetization Transfer Ratio MRI *Richard Dortch, Ryan Alexander, Jun Li, John Gore, Seth Smith*
- 2:15 p.m. S07.006**  
High-Dose Vitamin C Treatment for Patients with Charcot-Marie-Tooth Disease 1A: Results of a Randomized Double-Masked Controlled Trial *Richard Lewis, David Herrmann, Michael McDermott, Ahmet Hoke, Shawna Feely, Lindsey Miller, Carly Siskind, Lori Clawson, Elizabeth Luebbe, Patty Smith, Muscle Study Group, Michael Shy*
- 02:30 p.m. S07.007**  
X-Linked Recessive Axonal Neuropathy with Deafness and Cognitive Impairment (Cowchock Syndrome) Is Associated with Mutation in AIFM1 *Carlo Rinaldi, Christopher Grunseich, Irina Sevnioukova, Alice Schindler, Daniele Ghezzi, Massimo Zeviani, Kenneth Fischbeck*
- S08**  
**Neurologic Manifestations of Systemic Disease**  
**1:00 p.m. S08.001**  
Detection of Clinical and Subclinical Retinal Abnormalities in Neurosarcooidosis with Optical Coherence Tomography *Christopher Eckstein, Shiv Saidha, Elias Sotirchos, Gita Byraiah, Stephanie Syc, Michaela Seigo, Aleksandra Stankiewicz, E'Tona Ford, Srilakshmi Sharma, Peter Calabresi, Carlos Pardo-Villamizar*
- 1:15 p.m. S08.002**  
Establishment of a Registry To Identify Cases of PML Using Uniform Diagnostic Criteria *Avinadra Nath, Eugene Major, Allen Aksamit, Leonard Calabrese, James Sejvar, Camille Kotton, Maria Barhams*
- 1:30 p.m. S08.003**  
Adult-Onset Autoimmune Chorea *Oma O'Toole, J. Ahlskog, Joseph Matsumoto, Sean Pittock, James Bower, Vanda Lennon, Daniel Lachance, Robert Fealey, Andrew McKeon*
- 1:45 p.m. S08.004**  
Incidence and Prevalence of Major Central Nervous System (CNS) Involvement in Systemic Lupus Erythematosus (SLE): A 3 Year Prospective Evaluation and Clinical Correlations in 456 Patients *Eleni Kampylafka, Haralambos Alexopoulos, Michael Kosmidis, Panayiotis Vlachoyiannopoulos, Marinou Dalakas, Haralampous Moutsopoulos, Athanasios Tzioufas*
- 2:00 p.m. S08.005**  
Prevalence of Neurologic Decompression Sickness and Necrotic Brain Lesions in High-Altitude Pilots *Andrew Robinson, Paul Sherman, Peter Kochumov, Patrick Grogan, Stephen McGuire*
- 2:15 p.m. S08.006**  
7T Brain MR Imaging of Neurosarcooidosis: Preliminary Observations *Jeffrey Gelfand, Ari Green, Christopher Hess*
- 2:30 p.m. S08.007**  
Paraneoplastic Limbic Encephalitis with NMDA Receptor (NR1) Antibodies in Breast Cancer *A. Will, Murat Akalin*
- S09**  
**Interventional Neurology**  
**1:00 p.m. S09.001**  
Stroke, TIA, Amaurosis Fugax, or No Symptoms as Predictors of Outcomes in the Carotid Revascularization Endarterectomy Versus Stenting Trial *Charles O'Mara, Albert Hakaim, Robert Spetzler, Robert Bulas, Munier Nazzal, Mary Longbottom, Jennifer Voeks, Thomas Brott*
- 1:15 p.m. S09.002**  
Angiographic Predictors of Stroke after Carotid Artery Stenting – A Qualitative and Quantitative Analysis of 1070 Patients in the Carotid Revascularization Endarterectomy Versus Stenting Trial *Gary Roubin, Jeffrey Popma, Alexandra Almonacid, William Morrish, Barry Katzen, Elie Chakhtoura, Brajesh Lal, Jennifer Voeks, James Meschia, Thomas Brott*
- 1:30 p.m. S09.003**  
Restenosis Following Carotid Artery Stenting and Endarterectomy in the Carotid Revascularization Endarterectomy Versus Stenting Trial *Brajesh Lal, Kirk Beach, Gary Roubin, Helmi Lutsep, Wesley Moore, Mahmoud Malas, David Chiu, Nicole Gonzales, James Burke, Michael Rinaldi, James Elmore, Fred Weaver, Craig Narins, Malcolm Foster, Kim Hodgson, Alexander Shepard, James Meschia, Robert Bergelin, Jennifer Voeks, George Howard, Thomas Brott*
- 1:45 p.m. S09.004**  
Acute Ischemic Stroke Treatment with Mechanical Embolectomy Has Doubled in the US from 2008 to 2010 *Pooja Khatri, Karthikeyan Meganathan, Opeolu Adeoye, Richard Hornung, Dawn Kleindorfer*
- 2:00 p.m. S09.005**  
Did Carotid Stenting and Endarterectomy Outcomes Change over Time in the Carotid Revascularization Endarterectomy Versus Stenting Trial? *George Howard, Gary Roubin, L. Nelson Hopkins, Wesley Moore, William Gray, Kenneth Rosenfield, Barry Katzen, Elie Chakhtoura, William Morrish, Robert Ferguson, Robert Hye, Fayaz Shawl, Mark Harrigan, Jenifer Voeks, Brajesh Lal, James Meschia, Thomas Brott*
- 2:15 p.m. S09.006**  
National Trends in Utilization and Outcomes of Endovascular Treatment in Acute Ischemic Stroke Patients *Ameer Hassan, Saqib Chaudhry, Nassir Rostambeigi, Fareed Suri, Adnan Qureshi*
- 2:30 p.m. S09.007**  
Cost-Effectiveness of Carotid-Artery Stent Placement Versus Endarterectomy in Patients with Carotid Stenosis *Asif Khan, Saqib Chaudhry, Kamesh Sivagnanam, Ameer Hassan, M. Fareed Suri, Adnan Qureshi*
- S10**  
**Multiple Sclerosis: CCSVI and Other Clinical Outcomes**  
**1:00 p.m. S10.001**  
The Optic Nerve Head Component of the Multifocal Electroretinogram: A Novel Metric for Dissecting Pathophysiologic Mechanisms in MS *Teresa Frohman, Zane Schnurman, Shin Beh, Erich Sutter, Amy Conger, Darrell Conger, Shiv Saidha, Peter Calabresi, Laura Balcer, Elliot Frohman*
- 1:15 p.m. S10.002**  
Clinical and Radiological Disease Activity Is Associated with Accelerated Rates of Retinal Ganglion Cell Layer Degeneration in Multiple Sclerosis *Shiv Saidha, John Ratchford, Elias Sotirchos, Christopher Eckstein, Jonathan Oakley, Mary Durbin, Scott Meyer, Stephanie Syc, Michaela Seigo, Scott Newsome, Laura Balcer, Elliot Frohman, Peter Calabresi*
- 1:30 p.m. S10.003**  
In-Vivo Assessment of Retinal Neuronal Layers in Multiple Sclerosis with Manual and Automated Optical Coherence Tomography Segmentation Techniques *Elias Sotirchos, Michaela Seigo, Aleksandra Babiarz, Christopher Eckstein, Stephanie Syc, E'Tona Ford, Scott Newsome, John Ratchford, Laura Balcer, Elliot Frohman, Peter Calabresi, Shiv Saidha*
- 1:45 p.m. S10.004**  
A Single 7 Tesla MRI Brain Scan Predicts Multiple Sclerosis in Cases with Initial Diagnostic Uncertainty *Niraj Mistry, Jennifer Dixon, Emma Tallantyre, Christopher Tench, Rasha Abdel-Fahim, Tim Jaspan, Paul Morgan, Peter Morris, Nikos Evangelou*
- 2:00 p.m. S10.005**  
A Study of CCSVI with Imaging-Blinded Assessment: Neurosonography Update *Andrew Barreto, Staley Brod, Thanh-Tung Bui, James Jamelka, Larry Kramer, Kelly Ton, Alan Cohen, John Lindsey, Flavia Nelson, Ponnada Narayana, Jerry Wolinsky*
- 2:15 p.m. S10.006**  
Prospective, Case-Control Study of CCSVI with Imaging-Blinded Assessment: Progress Report Correlating Magnetic Resonance Venography with Neurosonography *Larry Kramer, Andrew Barreto, Thanh-Tung Bui, Staley Brod, James Jamelka, Kelly Ton, Alan Cohen, John Lindsey, Flavia Nelson, Ponnada Narayana, Jerry Wolinsky*
- 2:30 p.m. S10.007**  
WITHDRAWN

## Integrated Neuroscience Session: Mitochondrial Diseases in Neurology

Coordinators: Natalia Rost, MD and Nina Schor, MD

### Invited Speaker Session\* / 1:00 p.m. – 3:00 p.m.

- 1:00 p.m. – 1:15 p.m.** Introduction and Overview *Nina Schor, MD*
- 1:15 p.m. – 1:50 p.m.** Role of Mitochondria in Neurodegeneration *Serge Przedborski, MD, PhD*
- 1:50 p.m. – 2:25 p.m.** Suspicion and Evaluation of Mitochondrial Diseases of Childhood *Sumit Parikh, MD*
- 2:25 p.m. – 3:00 p.m.** Therapeutic Targets and Strategies for Mitochondrial Disease *Bruce Cohen, MD, FAAN*

### Poster Rounds\* / 3:00 p.m. – 4:00 p.m.

- IN7-1.001** Characterizing POLG-Ataxia: Clinics, Electrophysiology, and Imaging *Matthias Synofzik, Karin Surljies, Jana Godau, Daniela Berg, Ludger Schoels*
- IN7-1.002** Treatment for Stroke-Like Episodes in MEALS by Edaravone *Hisatomo Kowa, Tohko Miyawaki, Kenji Sekiguchi, Fumio Kanda, Tatsushi Toda*
- IN7-1.003** Severe Infantile Encephalomyopathy and Defective Mitochondrial Translation Due to a New Molecular Defect *Catarina Quinzii, Mario Barros, Simone Sanna-Cherchi, Valentina Emmanuele, Beatriz Lopez Garcia, Asan Akman, Rita Horvath, Claudia Ferreiro-Barros, Nader El Gharably, Darryl De Vivo, Aly Shokr, Michio Hirano*
- IN7-1.004** Pathophysiology of Stroke-Like Episodes in MELAS: A Possible Role of Neuron-Astrocyte Uncoupling in Cellular Damage during Synaptic Activation under Primary Oxidative Phosphorylation Defect *Takahiro Iizuka, Junichi Hamada, Fumihiko Sakai*
- IN7-1.005** PEO1 Gene (Twinkle) Mutation and Multi-Organ Failure Following Propofol Infusion *Rebecca Harrison, Jason Valerio, Frank Buffam, Michelle Mezei*
- IN7-1.006** The Molecular Etiology of Progressive External Ophthalmoplegia (PEO) Associated with Mitochondrial Myopathy *Sha Tang, Yu-Wen Huang, Margherita Milone, Lee-jun Wong*
- IN7-1.007** Mitochondrial Morpho-Functional Dysfunction in SPG31 Patients *Cyril Goizet, Giovanni Benard, Christel Depienne, Amir Boukhris, Guilhem Sole, Isabelle Coupry, Julie Pilliod, Marie-Laure Martin-Négrier, Sylvie Forlani, Alexandra Durr, Alexis Brice, Didier Lacombe, Rodrigue Rossignol, Giovanni Stevanin*
- IN7-1.008** MERRF and Kearns–Sayre Overlap Syndrome Due to the Mitochondrial DNA M.3291T>C Mutation *Valentina Emmanuele, David Silvers, Evangelia Sotiriou, Kurenai Tanji, Salvatore DiMauro, Michio Hirano*
- IN7-1.009** Maternally Inherited Diabetes and Deafness (MIDD) Syndrome Associated with Myoclonus *Nicholas Blondin, Alexander Vortmeyer, Hajime Tokuno*
- IN7-1.010** Adult-Onset Progressive Spastic Paraparesis Due to a Novel, Heteroplasmic Mitochondrial tRNAGlu (m.14685A>G) Gene Mutation *Sharmilee Gnanapavan, Charlotte Alston, Nichola Lax, John Yarham, Christopher Everett, Hamid Hewazy, Dominic O'Donovan, Andrew Dean, Robert Taylor*

### Data Blitz Session\* / 4:00 p.m. – 4:30 p.m.

- |  |   |  |   |
|--|---|--|---|
| <p><b>4:00 p.m.</b> <b>IN7-2.001</b><br/>Abnormal Mitochondrial Trafficking and Cytoskeletal Organization in a Human Induced Pluripotent Stem Cell and a Mouse Model of Charcot-Marie-Tooth Disease Type 2E <i>Mario Saporta, Dmitri Volfson, Adijat Adebola, Michael Shy, Ronald Liem, John Dimos</i></p> <p><b>4:05 p.m.</b> <b>IN7-2.002</b><br/>Mutations in the Nuclear Encoded Novel Mitochondrial Protein CHCHD10 Cause an Autosomal Dominant Mitochondrial Myopathy <i>Senda Ajroud-Driss, Faisal Fecto, Kaouther Ajroud, Teepu Siddique</i></p> | <p><b>4:10 p.m.</b> <b>IN7-2.003</b><br/>New MPV17 Mutations Associated with Multiple Deletions in Skeletal Muscle <i>Caterina Garone, Juan Carlos Rubio, Sarah Calvo, Ali Naini, Kurenai Tanji, Salvatore DiMauro, Vamsi Mootha, Michio Hirano</i></p> | <p><b>4:15 p.m.</b> <b>IN7-2.004</b><br/>Cardiac Involvement Is a Major Cause of Morbidity and Mortality in Patients Harboring the <i>MT-TL1</i> 3243A&gt;G “MELAS” Mutation <i>Edoardo Malfatti, Tanya Stojkovic, Anthony Behin, Bruno Eymard, Claude Jardel, Christophe Meune, Anne Lombes, Denis Duboc, Karim Whabi, Pascal Laforet</i></p> | <p><b>4:20 p.m.</b> <b>IN7-2.005</b><br/><i>In Vitro</i> and <i>In Vivo</i> Imaging of Over-Reduction States (Oxidative Stress) in MELAS Using PET Radiopharmaceutical Cu-ATSM <i>Makoto Yoneda, Masamichi Ikawa, Yukie Yoshii, Yasunari Nakamoto, Yasuhisa Fujibayashi, Hidehiko Okazawa</i></p> |
|--|---|--|---|

### Panel Discussion / 4:30 p.m. – 5:00 p.m.

\*Speakers and titles are subject to change

## Poster Discussion Session: Epilepsy: Bench to Bedside

**PD3.001** *bdnf* and *ntrk2b* Gene Expression Profile in the Brain of Adult Zebrafish after Induced Seizure *Fernanda Christina Reis-Pinto, Patricia Barbalho, Rafael Mangolin, Claudia Maurer-Morelli*

**PD3.002** Subcortical Band Heterotopia without Detectable DCX or LIS1 Gene Mutations *Eva Andermann, Dina Amrom, Daniella D'Agostino, Francois Dubeau, Frederick Andermann, William Dobyns*

**PD3.003** Diffuse Cortical Gliosis Is Associated with Decreased Mitochondrial Electron Transport Chain Complex IV Activity in Epileptogenic Brain Resected from Children with Intractable Epilepsy *Michael Miles, Lili Miles, Francesco Mangano, Paul Horn, Hansel Greiner, James Leach, Ki Hyeon Lee, Ton DeGrauw, Charles Hoppel*

**PD3.004** Circadian Distribution and Sleep-Wake Patterns of Seizures in the Epilepsy Monitoring Unit among Adults *An Tran, Sandipan Pati, Aman Deep, Ming-Jai Liu, Gayle Kiyota, Rama Maganti*

**PD3.005** Brain Imaging Correlates and Executive Impairments in Individuals with Epilepsy and Comorbid Major Depression *Mario Dulay, Whitney Havins, Krissa Agbayani, Jennifer Travis Seidl, Christof Karmonik, Zhong Xue, Amit Verma, Makoto Kawai, Robert Grossman*

**PD3.006** Troponin Elevation and Increased Mortality in Patients with Status Epilepticus (SE) *Samip Borad, Soundarya Gowda, Lawrence Morton, Scott Vota, Robert Delorenzo, Alan Towne*

**PD3.007** Interictal Versus Ictal High Frequency Oscillations in Neocortical Epilepsy *Svetlana Miocinovic, Pradeep Modur*

**PD3.008** Improved Seizure Severity, Health-Related Quality of Life and Health Status Reported by Patients during Long-Term Treatment with Lacosamide: Analysis of Pooled Open-Label Data *Joyce Cramer, Simon Borghs, Marc De Backer, Pamela Doty*

**PD3.009** Comparison of Zonisamide and Carbamazepine Monotherapy in Adults with Newly Diagnosed Partial Epilepsy: Results of a Phase III, Randomized, Double-Blind, Non-Inferiority Trial *Michel Baulac, Martin Brodie, Joanna Segieth, Luigi Giorgi*

**PD3.010** Pooled Analysis of Responder Rates and Seizure Freedom from Phase III Clinical Trials of Adjunctive Perampanel, a Selective, Non-Competitive AMPA Receptor Antagonist *Gregory Krauss, Emilio Perucca, Martin Brodie, Jacqueline French, David Squillacote, Haichen Yang, Dinesh Kumar, Antonio Laurenza*

## Acute Stroke Treatment

**PD3.001** Thrombolysis in Ischemic Stroke with No Arterial Occlusions *Sourabh Lahoti, Sankalp Gokhale, Amit Chaurasia, Louis Caplan*

**PD3.002** Blood Glucose Management in Acute Ischemic Stroke *Nicki Roderman, Gita Patel, Cathleen Poitevin, M. Meek*

**PD3.003** Double-Blind, Placebo-Controlled, Clinical Study To Investigate the Safety and Efficacy of MLC 601 in Patients after Stroke *Ali Amini Harandi, Hossein Pakdaman, Koroush Ghragzolee*

**PD3.004** Does Lovaza (Omega-3 Fatty Acid Ethyl Esters – OFA) Improve Clopidogrel Associated P2Y12 Inhibition in Stroke Patients? *Ping Li, Haris Kamal, Melissa Baxter, Bijal Mehta*

**PD3.005** The Effect of Preadmission Medications on Outcome Following IV Thrombolysis in a Statewide Telestroke Network *Archana Hinduja, Salah Keyrouz, Nicolas Bianchi, Shuja Rayaz, Shadi Yaghi*

**PD3.006** Is Intravenous Recombinant Tissue Plasminogen Activator (r-tPA) Safe in Patients on Dabigatran? *Raghav Govindarajan, John Morren, Nestor Galvez-Jimenez*

**PD3.007** Ischemic Stroke in Pregnancy: Successful Treatment with Intravenous Recombinant Tissue Plasminogen Activator (IV rtPA) *Johannes Wohrle, Livia Tveici, Ralph Werner*

**PD3.008** A Study of Factors Causing Delay in Hospital Arrival after Acute Stroke *Sourabh Lahoti, Noshin Siddiqi, Sankalp Gokhale, Amit Chaurasia, Shirish Hastak*

**PD3.009** Is Systemic Thrombolysis Justified in Patients with Ischemic Stroke and Recent Dental Extraction? *Christian Seifert, Till Sprenger, Thomas Mücke, Anette Förschler, Holger Poppert, Bernhard Hemmer, Johann Sellner*

**PD3.010** Use of Tissue Plasminogen Activator (TPA) in the Setting of Acute Stroke in Patients with Intracranial Aneurysms *Adam Juersivich, Adam Kelly*

## Predictors of Stroke Outcomes and Other Considerations

**PD3.011** White Blood Cell Count as a Marker of Stroke Severity and Clinical Outcomes after Acute Ischemic Stroke *Julio Furlan, Mervyn Vergouwen, Frank Silver*

**PD3.012** Sulcal Artery Syndrome: Report of Two Cases *Amaldo Da Silva, James Brorson, Kourosh Rezania*

**PD3.013** Leukocytosis & Neutrophilia Are Correlated with NIHSS after Neurological Deterioration in the Setting of Acute Ischemic Stroke *Andre Kumar, James Siegler, Michael Gillette, Sheryl Martin-Schild, Amelia Boehme, Karen Albright*

**PD3.014** Factor VIII Is Associated with Hypertensive Heart Disease in Patients with Acute Ischemic Stroke *Aimee Ayse, Sheryl Martin-Schild, Joseph Tarsia, Tiffany Chang, Amelia Boehme, E. Sartor, Karen Albright*

**PD3.015** Central Nervous System Vasculitis: The Tulane Experience *Greg Redmann, Joseph Tarsia, Sheryl Martin-Schild*

**PD3.016** A Rural Stroke Network without Telemedicine *Michael Dobbs, Lisa Bellamy*

**PD3.017** Case Series of Stroke Caused by HIV Associated Vasculopathy in Adults *Daphne Robakis, Anna Marisa Cervantes-Arslanian, Aleksandra Pikula*

**PD3.018** Circadian Rhythm of Stroke Onset during the Month of Ramadan *Ashraf Zaher, Ashraf Elmetwalli, Ebraheem Elmenshawey*

**PD3.019** Acute Ischemic Stroke in the Corpus Callosum: Characteristics, Risk Factors, and Outcomes *Rohini Bhole, Dustin Rochestie, Cheryl Brown, Rohan Arora, Elias Giraldo*

**PD3.020** Does Admission Leukocytosis or Neutrophilia Negatively Impact Outcome in Acute Ischemic Stroke? *James Siegler, Amelia Boehme, Michael Gillette, Andre Kumar, Karen Albright, Sheryl Martin-Schild*

## Clinical Observations Regarding Cerebrovascular Disease

**PD3.021** Subdural Hematoma and Antiaggregation or Anticoagulation: Which Is Their Influence in Outcome? *Fatima Pagani Cassará, Francisco Muñoz Giacomelli, Maria Eugenia Gonzalez Toledo, Agustin Jauregui, Juan Racosta, Analia Calle*

**PD3.022** Cognitive Decline and Asterixis: A Thalamic Manifestation of a Tentorial Dural Arteriovenous Fistula (dAVF) *Neha Morparia*

**PD3.023** A Comparison of Mortality Rates between In-Hospital and Pre-Hospital Strokes at a Primary Stroke Center *Scott Saucedo, Calin Prodan, Ankur Garg, Akram Shhadeh*

**PD3.024** Troponin I and Acute Ischaemic Stroke *Shahpar Nahir, Fahmi AlSenani*

**PD3.025** Tapia Syndrome, Resulting from Internal Carotid Artery Dissection in the Setting of Yoga and Review the Localization and Mechanism of Injury to the Vagal and Hypoglossal Nerves *Karthikeyan Arcot, Jeremy Liff, Deborah Horowitz*

**PD3.026** Clinical Features of Lateral Medullary Infarction with Ipsilateral Hemiparesis *Masahiro Uemura, Hisakazu Uno, Arisa Umesaki, Kotaro Miyashita, Kazuyuki Nagatsuka, Kazunori Toyoda, Kazuo Minematsu, Hiroaki Naritomi*

**PD3.027** Takotsubo Cardiomyopathy in Cerebrovascular Diseases: Effect on Outcomes and Resource Utilization *Keyur Patel, Yogesh Moradiya, Neeraj Shah, Valay Parikh, Sneha Modi*

**PD3.028** Latency to an Episode of Neurological Deterioration Following Ischemic Stroke May Be Related to the Etiology of Deterioration *Michael Gillette, Amelia Boehme, James Siegler, Andre Kumar, Karen Albright, Sheryl Martin-Schild*

**PD3.029** High Prevalence of In-Hospital Stroke in an Intensive Coronary Unit *Claudia Alonzo, Maria Zuru, Laura Brescacin, Fabiana Ortega, Gabriela Orzuza, Victor Villarroel, Silvana Brienza, Rocio Martinez, Luis Camera, Gabriel Waisman, Edgardo Cristiano*

**PD3.030** A Case of Complete Lateral Gaze Paralysis and Facial Diplegia: The 17 Syndrome? *Vincci Ngan, Robert Connors, Jonathan Howard*

## Poster Session III

**Multiple Sclerosis: Imaging**

**P03.031** Damage to the Optic Radiations in Multiple Sclerosis Studied Using DT MRI *Paolo Preziosa, Maria Rocca, Sarlota Mesaros, Elisabetta Pagani, Katarina Kacar, Tatjana Stosic-Opincal, Jelena Drulovic, Giancarlo Comi, Massimo Filippi*

**P03.032** Iron Deposition on SWI Filtered Phase in the Subcortical Deep Gray Matter of Clinically Isolated Syndrome Patients May Precede Structure-Specific Atrophy *Jesper Hagemeyer, Bianca Weinstock-Guttman, Niels Bergsland, Mari Heininen-Brown, Ellen Carl, Cheryl Kennedy, Christopher Magnano, David Hojnacki, Michael Dwyer, Robert Zivadinov*

**P03.033** Relevance of Brain Lesion Distribution and Frequency for Short-Term Conversion of Patients with Clinically Isolated Syndrome to Multiple Sclerosis *Antonio Giorgio, Marco Battaglini, Maria Rocca, Martina Absinta, Frederik Barkhof, Alex Rovira, Maria Tintore-Subirana, Declan Chard, Olga Ciccarelli, Christian Enzinger, Claudio Gasperini, Jette Frederiksen, Massimo Filippi, Nicola De Stefano*

**P03.034** Localizing Clinically Relevant Diffusion Changes in the Corpus Callosum in MS: Application of a New Imaging Metric *Nancy Sciotte, Yonggang Shi, Michael Montag, Barbara Glessner, Arthur Toga*

**P03.035** Patterns of Regional Gray and White Matter Atrophy Are Associated to PASAT and SDMT Performances in Relapsing Remitting Multiple Sclerosis Patients *Gianna Carla Riccitelli, Maria Rocca, Elisabetta Pagani, Vittorio Martinelli, Marta Radaelli, Andrea Falini, Giancarlo Comi, Massimo Filippi*

**P03.036** Correlation between MRI Measures and Conversion to Clinically Definite Multiple Sclerosis in Patients Treated with Intramuscular Interferon Beta-1a *Dana Horakova, Tomas Kalincik, Michaela Tyblova, Jan Krasensky, Manuela Vaneckova, Zdenek Seidl, Xiaojun You, Eva Havrdova*

**P03.037** Four-Year Evolution of Brain Tissue Integrity Using Diffusion Tensor Imaging in Multiple Sclerosis *Daniel Ontaneda, Ken Sakaie, Jian Lin, Xiao-feng Wang, Mark Lowe, Michael Phillips, Robert Fox*

**P03.038** Demyelination of the Optic Nerve Correlates to Wide-Spread Demyelination of the Brain in Multiple Sclerosis (MS): A TBSS Study of Brain DTI and VEP Latency *Konstantinos Sotiriou, Barbara Ettrich, Donald Lobsien, Dominik Fritsch, Karl-Titus Hoffmann, Florian Then Bergh*

**P03.039** Ring-Enhancing Lesions in MS: Longitudinal Quantification by Diffusion Tensor and Magnetization Transfer Imaging *Peiqing Qian, Samantha Lancia, Ronit Patnaik, Junqian Xu, Anne Cross, Leo Wolansky, Stuart Cook, Diego Cadavid, Robert Naismith*

**P03.040** Multiple Sclerosis Changes the Size of Intralesional and Extralesional Parenchymal Veins *Maria Gaitán, Manori de Alwis, Pascal Sati, Daniel Reich*

**P03.041** Multiparametric MRI Analysis of Patients with Late Multiple Sclerosis *Lukasz Jasek, Malgorzata Siger, Tomasz Berkowicz, Krzysztof Selmaj*

**P03.042** Iron Deposition in Multiple Sclerosis Lesions Measured by Susceptibility-Weighted Imaging Filtered Phase. A Case Control Study *Michael Dwyer, Mari Heininen-Brown, Jesper Hagemeyer, Guy Poloni, Niels Bergsland, Christopher Magnano, Jacqueline Durfee, Cheryl Kennedy, Ellen Carl, Bianca Weinstock-Guttman, Robert Zivadinov*

**P03.043** Brain Atrophy and Proton Magnetic Resonance Spectroscopy in Familial and Sporadic Multiple Sclerosis Patients *Malgorzata Siger, Krzysztof Selmaj*

**P03.044** Gender Related Differences in Atrophy and Lesion Load in Multiple Sclerosis Patients in Buenos Aires, Argentina *Juan Ignacio Rojas, Liliana Patrucco, Cristina Besada, Santiago Tizio, Edgardo Cristiano*

**P03.045** Ultra-High-Field MR Imaging of Brain Lesions of Neuromyelitis Optica Spectrum Disorders (NMOsd): Absence of Central Venule within Lesions May Help Differentiate NMOsd from Multiple Sclerosis *Ilya Kister, Joseph Herbert, Yulin Ge*

**P03.046** Spinal Cord Atrophy in Multiple Sclerosis and Relationship to Clinical Phenotype *Evanthia Bernitsas, Fen Bao, Megha Shah, Gautam Ramesh, Wazim Mohamed, Rima Aronov, Omar Khan*

**P03.047** Pathophysiology of Tissue Damage in Progressive Multiple Sclerosis: An Immunological and MRI Comparative Study Versus Motor Neuron Disease *Paola Tortorella, Marcella Laganà, Marina Saresella, Ludovica Griffanti, Ivana Marventano, Giovanna Pinardi, Massimo Corbo, Christian Lunetta, Pietro Ceconi, Domenico Caputo, Mario Clerici, Marco Rovaris*

**P03.048** Clinical-Radiological-Pathological Spectrum of CNS Inflammatory Demyelinating Disease in the Elderly *Chiara Costanzi, Reem Bunyan, Yong Guo, Joseph Parisi, Linda Linbo, Claudia Lucchinetti*

**P03.049** White and Gray Matter Changes in Early Multiple Sclerosis *Adil Javed, Eric Williamson, Lei Shi*

**P03.050** Polyphenon E, a Green Tea Extract, Increases Brain NAA Levels in MS: A Pilot Six Month Open Label Study *Alexander Ramos, Virginia Garrison, Dennis Koop, William Rooney, Dennis Bourdette, Jesus Lovera*

**P03.051** Correlation between Brain MRI and Health Related Quality of Life in Early Treated MS Patients and Clinically Isolated Syndrome *Mikael Cohen, Bruno Brochet, Pierre Clavelou, Emmanuelle Le Page, Patrick Vermersch, Ayman Tourbah, Thibault Moreau, Christine Lebrun Frenay*

**P03.052** Restricted Diffusion Preceding Gadolinium Enhancement in Acute Multiple Sclerosis Lesions *Megan Hyland, Robert Bermel, Jeffrey Cohen*

**P03.053** Comparison of a 1.5T Standard vs. 3T Optimized Protocols in Multiple Sclerosis Patients *Ilya Livshits, Sara Hussein, Cheryl Kennedy, Bianca Weinstock-Guttman, David Hojnacki, Robert Zivadinov*

**P03.054** Diffusional Kurtosis Imaging of Gray Matter in Patients with Multiple Sclerosis *Matilde Inglese, Maxim Bester, Jens Jensen, Ali Tabesh, Hina Jaggi, Joseph Herbert, Robert Grossman*

**P03.055** Automated Determination of Brain Parenchymal Fraction in Multiple Sclerosis *Mattias Vågberg, Thomas Lindqvist, Marcel Wamtijs, Peter Sundström, Richard Birgander, Anders Svenningsson*

**P03.056** Quantification of Global Cerebral Gray Matter Atrophy in Multiple Sclerosis from 3T MRI *Ashish Arora, Elisa Delloglio, Antonia Ceccarelli, Bonnie Glanz, Brian Healy, Shahamat Tauhid, Jonathan Jackson, Nikila Saravanan, Ralph Benedict, Rohit Bakshi, Mohit Neema*

**P03.057** Marking Its Impact in Hispanics with Multiple Sclerosis *Liyana Amezcua, Jinghua Liu, Brett Lund, Annette Langer-Gould, David Van Den Berg, Alexander Lerner, Leslie Weiner, David Conti*

**P03.058** Quantitative Susceptibility Mapping: Initial Experience for Multiple Sclerosis Lesion Characterization *Weiwai Chen, Joseph Comunale, Susan Gauthier, Linda Heier, Tian Liu, Apostolos Tsiouris, Yi Wang*

**P03.059** Clinical Impairment in Multiple Sclerosis Is Related to the Damage of Clinically Eloquent White Matter Tracts *Paolo Preziosa, Maria Rocca, Sarlota Mesaros, Elisabetta Pagani, Tatjana Stosic-Opincal, Domenico Caputo, Jelena Drulovic, Giancarlo Comi, Massimo Filippi*

**P03.060** Improved Radiological Localization of Spinal Cord Lesions in Multiple Sclerosis *Hugh Kearney, Katherine Miszkiel, Marios Yiannakas, Olga Ciccarelli, David Miller*

**P03.061** A Voxel-Based Assessment of Cervical Cord Atrophy in MS Patients *Dusan Damjanovic, Maria Rocca, Paola Valsasina, Sarlota Mesaros, Mark Horsfield, Tatjana Stosic-Opincal, Jelena Drulovic, Giancarlo Comi, Massimo Filippi*

**P03.062** Cortical Atrophy Underlies Disability Development in Multiple Sclerosis *Sudarshini Ramanathan, Mayuresh Korgaonkar, Stuart Grieve, Lavier Gomes, Therese Burke, Kerry Lenton, Matthew Kiernan, Steve Vucic*

**P03.063** Subcortical but Not Cortical Gray Matter Atrophy Predicts Disability Progression over 5 Years in Patients with Early Relapsing-Remitting Multiple Sclerosis *Robert Zivadinov, Niels Bergsland, Ondrej Dolezal, Sara Hussein, Zdenek Seidl, Michael Dwyer, Manuela Vaneckova, Jan Krasensky, James Potts, Eva Havrdova, Dana Horakova*

**P03.064** A Method for Analysis of Cortical Lesions on 7-Tesla MRI in Multiple Sclerosis *Daniel Harrison, Jiwon Oh, Craig Jones, Jun Hua, Emily Wood, Peter Calabresi, Peter Van Zijl, Daniel Reich*

**P03.065** Ten-Year Brain Atrophy and Disability Changes in Patients with Multiple Sclerosis *Antonio Giorgio, Maria Laura Stromillo, Maria Bartolozzi, Francesca Rossi, Marco Battaglini, Leonello Guidi, Patrizia Maritato, Emilio Portaccio, Maria Amato, Antonio Federico, Nicola De Stefano*

**P03.066** GABA-fMRI Activation Volume Correlation Suggests GABA Is a Marker of Cortical Adaptation in Multiple Sclerosis *Pallab Bhattacharyya, Robert Bermel, Michael Phillips, Lael Stone, Blessy Mathew, Mark Lowe*

**P03.067** Cerebellar Grey-Matter Lesion Load Is Related to Worse Motor Performance in Multiple Sclerosis Patients *Alfredo Damasceno, Benito Damasceno, Fernando Cendes*

**P03.068** Inter-Rater Reliability among Clinical Raters for New MRI Lesions in MS Patients *Richard Rudick, Ebru Altay, Jar-Chi Lee, Stephen Jones, Claire Hara-Cleaver, Elizabeth Fisher*

**P03.069** Lesion Incidence Estimation and Detection Using Multi-Modality Longitudinal MRIs *Elizabeth Sweeney, Russell Shinohara, Colin Shea, Daniel Reich, Ciprian Crainiceanu*

**Multiple Sclerosis: Imaging Correlates of Cognitive Dysfunction**

**P03.070** Cognitive Reserve Theory May Apply to the Model of Multiple Sclerosis *Emilio Portaccio, Lorenzo Razzolini, Benedetta Goretti, Marco Battaglini, Maria Laura Stromillo, Gianfranco Siracusa, Antonio Giorgio, Bahia Hakiki, Marta Giannini, Luisa Pastò, Sandro Sorbi, Antonio Federico, Nicola De Stefano, Maria Amato*

## Poster Session III

**P03.071** Large-Scale Neuronal Network Dysfunction in Relapsing-Remitting Multiple Sclerosis *Paola Valsasina, Maria Rocca, Vittorio Martinelli, Roberta Messina, Paolo Misci, Andrea Falini, Giancarlo Comi, Massimo Filippi*

**P03.072** Functional Connectivity Abnormalities and Cognitive Impairment in Relapse-Onset MS Patients: A Whole-Brain Functional Network Connectivity Analysis *Maria Rocca, Paola Valsasina, Paolo Preziosa, Gianna Carla Riccitelli, Vittorio Martinelli, Andrea Falini, Giancarlo Comi, Massimo Filippi*

**P03.073** Dysfunction of Cognitive Networks in Patients with Relapsing-Remitting Multiple Sclerosis: a Resting-State Functional Magnetic Resonance Imaging (fMRI) Analysis *Mirela Cerghet, Stamak Nejad-Davarani, Lian Li, Quan Jiang*

**P03.074** The Impact of Cerebral Atrophy on Information Processing Capacity in Patients with Multiple Sclerosis *Michael Sailer, Peter Bublak, Ralf Deppe, Jürgen Faiss, Martin Fischer, Frank Hoffmann, Anett Kunkel, Erhard Stadler, Matthias Schwab, Kathrina Voigt, Uwe Zettl, Wolfgang Köhler*

**P03.075** Deficits in Memory and Spatial Cognition Correlate with Regional Hippocampal Atrophy in Multiple Sclerosis *Giulia Longoni, Maria Rocca, Elisabetta Pagani, Gianna Carla Riccitelli, Bruno Colombo, Mariaemma Rodegher, Andrea Falini, Giancarlo Comi, Massimo Filippi*

**P03.076** Cognitive Reserve Modifies the Brain Network Underlying Cognitive Fatigue in Multiple Sclerosis (MS) *Abhijit Das, Glenn Wylie, Helen Genova, James Sumowski, John DeLuca, Nancy Chiaravalloti*

**P03.077** Juxtacortical Lesion Volume and Cognitive Performance in Early Onset of Relapsing Remitting Multiple Sclerosis *Juan Ignacio Rojas, Liliana Patrucco, Santiago Tizio, Edgardo Cristiano*

**P03.078** Neuropsychological Performance and Biochemical Magnetic Resonance Spectroscopy Changes in Clinically Isolated Syndrome and Early Relapsing Remitting Multiple Sclerosis *Christian Schenk, Gishlaine Alfonso, Brenda Deliz-Roldan, Antonio Algaze-Beato, Edgar Colon, Liza San Miguel*

**P03.079** Brain Cortical Lesion Load Is Related to Cognitive Dysfunction in Multiple Sclerosis Patients *Alfredo Damasceno, Benito Damasceno, Fernando Cendes*

### Aging and Dementia: Imaging, Behavior, and Cognition

**P03.080** Gender Modulates the APOE ε4 Effect in Healthy Older Controls: Convergent Evidence from Functional Brain Connectivity and Spinal Fluid Tau Levels *Jessica Damoiseaux, William Seeley, William Shire, Giovanni Coppola, Anna Karydas, Bruce Miller, Joel Kramer, Michael Greicius*

**P03.081** Emotional Contagion Increases in Mild Cognitive Impairment and Alzheimer's Disease with Gender-Specific Right Dorsomedial Prefrontal Cortex Compensation *Virginia Sturm, Jennifer Yokoyama, William Seeley, Bruce Miller, Katherine Rankin*

**P03.082** One-Year Test-Retest Reliability of Intrinsic Connectivity Network fMRI in Older Adults *Cong Guo, Florian Kurth, Juan Zhou, Emeran Mayer, Simon Eickhoff, Joel Kramer, William Seeley*

**P03.083** Right Temporal Lobe Atrophy: A Neuropsychological and Functional Imagery Study *Nadine Longato, Barbara Jung, Vincent Noblet, Emmanuelle Ehrhardt, Nathalie Philippi, Fabrice Hubele, Izzie Jacques Namer, Frederic Blanc*

**P03.084** Age-Related Effect of APOE Genotype on Brain Functional Connectivity during Episodic Memory Encoding *Joseph Masdeu, Venkata Mattay, Qiang Chen, Philip Kohn, John Muse, Bhaskar Kolachana, Lisa Nichols, Daniel Weinberger, Karen Berman*

**P03.085** Sensory-Perceptual Encoding and Selective Attention: An Examination of Processing Speed and Inhibition among Well-Matched Young and Young-Old Adults *Anna Haring, Tatyana Zhuravleva, Brittany Alperin, Phillip Holcomb, Dorene Rentz, Kirk Daffner*

**P03.086** Resting State Functional Connectivity in Posterior Cortical Atrophy *Raffaella Migliaccio, Cecile Gallea, Katia Andrade, Daliia Samri, Stephane Lehericy, Bruno Dubois, Paolo Bartolomeo*

**P03.087** Left Temporal Lobe Subcortical Hyperintensities Correlate with Verbal Learning and Memory in Alzheimer's Disease and Normal Elderly *Sandra Black, Alicia McNeely, Joel Ramirez, Christopher Scott, Gregory Szilagyi, Alex Kiss, Donald Stuss*

**P03.088** Cholinergic Activity Correlates with Educational and Occupational Attainment in Amnesic MCI and Probable AD: Implications for the Reserve Hypothesis *Valentina Garibotto, Marco Tettamanti, Alessandra Marcone, Ioana Florea, Andrea Panzacchi, Rosa Maria Moresco, Stefano Cappa, Daniela Perani*

### Aging and Dementia: White Matter Imaging

**P03.089** Effects of Vascular Risk Factors on White Matter Integrity in Middle-Aged Adults: A Voxel-Based Diffusion Tensor Imaging Study *Pauline Maillard, Sudha Seshadri, Alexa Beiser, Evan Fletcher, Jayandra Himali, Sarah Preis, Rhoda Au, Owen Carmichael, Philip Wolf, Charles DeCarli*

**P03.090** Diffusion Tensor Imaging Contributes To Differentiate Richardson's Syndrome from Progressive Supranuclear Palsy-Parkinsonism *Federica Agosta, Michela Pievani, Marina Svetel, Milica Jecmenica Lukic, Massimiliano Copetti, Alexandra Tomic, Antonio Scarale, Giulia Longoni, Giancarlo Comi, Vladimir Kostic, Massimo Filippi*

**P03.091** User-Independent Analyses of White Matter Tractography in Primary Progressive Aphasia *Caroline Brun, Corey McMillan, Paul Yushkevich, Jim Gee, Murray Grossman*

**P03.092** Neuroanatomical Correlates of Cognitive and Neuropsychiatric Worsening in Alzheimer's Disease: Whole-Brain Longitudinal DTI Analysis *Kenichi Oishi, Michelle Mielke, Marilyn Albert, Constantine Lyketsos, Susumu Mori*

**P03.093** The Effects of Corpus Callosum and Cortical Connectivity on Motor Function in Cognitively Intact Elderly *Lisa Silbert, Louie Perkins, David Lahna, Jeffrey Kaye*

**P03.094** A Novel Method for Quantifying White Matter Disease Burden Using Diffusion Tensor Imaging *Kyle Womack, Jeremy Strain, Linda Hynan, Michael Devous, John Hart, Roderick McColl, Ramon Diaz-Arrastia*

**P03.095** White Matter Tract Specific Analysis of Behavioral Variant Frontotemporal Degeneration *Caroline Brun, Corey McMillan, Katya Rascovsky, Ashley Boller, Paul Yushkevich, Jim Gee, Murray Grossman*

**P03.096** The Contribution of White Matter Neuroimaging to Multimodal Diagnosis of Frontotemporal Lobar Degeneration *Corey McMillan, Caroline Brun, Sarmad Siddiqui, Matthew Churgin, David Libon, Paul Yushkevich, Hui Zhang, Ashley Boller, James Gee, Murray Grossman*

**P03.097** White Matter Volume Predicts 1-Year Change in Mental Status in Probable Alzheimer's Disease but Not Mild Cognitive Impairment *James Becker, Leonid Teverovskiy, Howard Aizenstein, Meryl Butters, Julie Price, William Klunk, Oscar Lopez*

**P03.098** Comparative Methods for Analyzing Diffusion Tensor Imaging in Semantic Variant Primary Progressive Aphasia *John Powers, Corey McMillan, Philip Cook, Caroline Brun, Paul Yushkevich, James Gee, Murray Grossman*

### Aging and Dementia: Structural Imaging

**P03.099** Cortical Thickness and Head Size: Are They Related? *Siekyeong Kim, Tammie Benzinger, John Morris, Jason Hassenstab*

**P03.100** Amygdalar Local Structural Differences in Alzheimer's Patients: Relation with Age and APOE Genotype *Enrica Cavedo, Michela Pievani, Marina Boccardi, Samantha Galluzzi, Matteo Bonetti, Paul Thompson, Giovanni Frisoni*

**P03.101** Comparison of Automated and Manual Hippocampal Segmentation *Nicole Chow, Amity Green, Kristy Hwang, Clifford Jack, Paul Thompson, Liana Apostolova*

**P03.102** The Association among Postural Instability, Brain Atrophy and Cognitive Dysfunction in Alzheimer's Disease: Voxel-Based-Morphometry and Computerized-Dynamic-Posturography Study *Hyon-Ah Yi, Geun-Youp Na, Hyung Lee*

**P03.103** Age Effects on Cortical Thickness in Cognitively Normal Elderly Individuals *Sona Babakchanian, Ellen Woo, Valeria Kebets, Amity Green, Charleen Zoumalan, Benjamin Wang, Paul Thompson, Liana Apostolova*

**P03.104** Whole Brain Fractal Analysis of the Cerebral Cortex across the Adult Lifespan *Sourav Kole, Nikhil Singh, Richard King*

**P03.105** Combined Quantitative MRI and Quantitative MRS May Improve Early Diagnosis of Alzheimer's Disease *Thao Tran, Jessica Liu, Napapon Sailasuta, Brian Ross*

**P03.106** Clinical Validation of a Grid-Based SPM Web Tool for the Automatic Assessment of [18F]FDG PET Brain Metabolic Abnormalities in Single Subjects *Pasquale Della Rosa, Chiara Cerami, Annapaola Prestia, Francesca Gallivanone, Giovanni Frisoni, Flavio Nobili, Stefano Cappa, Daniela Perani*

**P03.107** Age and Sex Differences in Total and Regional Brain Volumes: The Northern Manhattan Study *Nooshin Nabizadeh, Hannah Gardener, Norbelina Disla, Noam Alperin, Mitchell Elkind, Ralph Sacco, Charles DeCarli, Clinton Wright*

### Epilepsy: Imaging

**P03.108** Reliability of Imaging-Friendly Electrodes for Continuous EEG Monitoring in Children *John Brandsema, Elysa Widjaja, Roy Sharma, Cecil Hahn*

## Poster Session III

- P03.109** The Localizing Value of Ictal SPECT during Auras in Focal Epilepsy *Norman So, Sherif Elwan, Andreas Alexopoulos, Steve Huang, Guiyun Wu*
- P03.110** Ultrahigh-Field MR Volumetry of the Endopiriform Nucleus in Temporal Lobe Epilepsy *Samuel Maiser, Pierre-Francois Van de Moortele, Marie Chupin, Stéphane LeHéricy, John Strupp, Michael Sikora, Zhiyi Sha, Kamil Ugurbil, Thomas Henry*
- P03.111** Diffusion Tensor Imaging Uncovers Otherwise-Unrecognized Abnormalities in Frontal Lobe Cortex in Children with Intractable Frontal Lobe as Well as Temporal Lobe Epilepsy *Sue Cheah, Sonya Steele, Anastasiya Batrachenko, Aravindhan Veerapandian, Michael DeBellis, Melanie Bonner, James Provenzale, William Gallentine, Gerald Grant, Helen Egger, Allen Song, Mohamad Mikati*
- P03.112** Functional Connectivity MRI Asymmetries in Lateralized Temporal Lobe Epilepsy *Zulfi Haneef, Agatha Lenartowicz, Hsiang Yeh, Jerome Engel, John Stern*
- P03.113** EEG-fMRI Haemodynamic Responses of Patients with Non-Lesional Mesial Temporal Lobe Epilepsy (MTLE) *Ana Coan, Guilherme Beltramini, Bruno Campos, Roberto Covolan, Fernando Cendes*
- P03.114** Video-EEG and FDG-PET Confirm the Ictal Nature of Prolonged Homonymous Hemianopia in Non-Ketotic Hyperglycemia – Report of Three Patients *Aaron Stayman, Patrick Lavin, Bassel Abou-Khalil, Nabil Azar*
- P03.115** Neuropathological Study of Resected Cerebral Tissue from Patients with 3 Tesla MRI-Negative Refractory Epilepsy *Aman Deep, Sandipan Pati, Hussam Seif Eddeine, Steve Chung*
- P03.116** Reversible and Irreversible Cranial MRI Findings Associated with Status Epilepticus *Ana Cartagena, G. Young, Donald Lee, Seyed Mirsattari*
- P03.117** Clinical Utility of 18-Fluorodeoxyglucose Positron Emission Tomography (PET) in Patients with Nonlesional Temporal Lobe Epilepsy (TLE) *Hussam Seif Eddeine, Stephanie Chen, Sandipan Pati, Steve Chung*
- Movement Disorders and Neuroimaging**
- P03.118** The Role of Diffusion Tensor Imaging To Uncover Primary Lateral Sclerosis Masquerading as Progressive Supranuclear Palsy *Elizabeth Coon, Jennifer Whitwell, Clifford Jack, Keith Josephs*
- P03.119** Camptocormia in Parkinson's Disease: Study of Paraspinal Muscles Using Magnetic Resonance Image and Near-Infrared Spectroscopy (NIRS) *Kenya Murata, Tomoyoshi Kondo*
- P03.120** White Matter Damage in Parkinson's Disease Patients with Glucocerebrosidase Gene Mutations: A Study Using Diffusion Tensor Imaging *Kristina Davidovic, Federica Agosta, Nikola Kresojevic, Lidia Sarro, Marina Svetel, Iva Stankovic, Giancarlo Comi, Vladimir Kostic, Massimo Filippi*
- P03.121** Different Clinical Implications of Substantia Nigra R2\* and Diffusion Tensor Imaging Changes in Parkinson's Disease *Guangwei Du, Mechelle Lewis, Suman Sen, Michele Shaffer, Martin Styner, Jianli Wang, Qing Yang, Xuemei Huang*
- P03.122** Apathy in Nondemented and Nondepressed Parkinson's Disease Patients: A PET Study *Gabriel Robert, Florence Le Jeune, Sophie Drapier, Marc Verin, Dominique Drapier*
- P03.123** Impact of DaTscan™ SPECT Imaging on Clinical Management, Diagnosis, and Confidence of Diagnosis in Patients with Clinically Uncertain Parkinsonian Syndromes: A Prospective 1-Year Follow-Up Study *Igor Grachev, Andreas Kupsch, Nin Bajaj, Frederick Weiland, Antonio Tartaglione, Susanne Klutmann, Melanie Buitendyk, Paul Sherwin, Ann Tate*
- P03.124** Voxel-Based Morphometry (VBM) and Cortical Thickness in Motor Conversion Disorders *Kathrin Czamecki, Sarah Kranick, Silvina Horovitz, Valerie Voon, John Ostuni, Mark Hallett*
- P03.125** Diagnostic Reliability of DaT scan in Movement Disorders *Olga Wal, Joohi Jimenez Shahed, Juliet Wendt, Michele York, Jose Baizabal Carvallo, Raja Mehanna, Neepa Patel, Niraj Patel, Christine Hunter, Anh Kim Van, Joseph Jankovic*
- P03.126** Therapeutic Occupancy of the D2/3-Preferring Dopamine Receptor Agonist Pramipexol in Brains of Patients with Parkinson's Disease ([18F]-Fallypride PET Study) *Angela Deutschlandler, Christian La Fougere, Guoming Xiong, Kai Bötzel, Gerhard Gründer, Paul Cumming*
- P03.127** Dopaminergic and Cholinergic Brain Activity and Performance on MMSE and MoCA in Parkinson's Disease *Adrienne Lenhart, Nicolaas Bohnen, Robert Koeppe, Kelvin Chou*
- Child Neurology/Developmental Neurobiology: Imaging**
- P03.128** Neurologic Examination Findings Which Are Associated with MRI Abnormalities in a Population of Children with Learning Disorders: Review of a Clinic-Based Sample *David Union, Hanalise Huff*
- P03.129** Prefrontal and Occipital Asymmetry and Volume in Children and Adolescents with Autism Spectrum Disorder *Tracey Knaus, Helen Tager-Flusberg, Jeffrey Mock, Rachel Dauterive, Anne Foundas*
- P03.130** Resting State Functional Connectivity Abnormalities Are Associated with Cognitive Impairment in Patients with Pediatric Multiple Sclerosis *Massimo Filippi, Maria Rocca, Maria Amato, Paola Valsasina, Martina Absinta, Angelo Ghezzi, Lucia Moiola, Agnese Fiorino, Pierangelo Veggiotti, Andrea Falini, Giancarlo Comi, and the MS and Neuroimaging Study Groups of the Italian Neurological Society*
- P03.131** Exploring the Relationship between Regional Gray Matter Atrophy and Cognitive Impairment in Pediatric Multiple Sclerosis *Martina Absinta, Maria Rocca, Maria Amato, Angelo Ghezzi, Lucia Moiola, Agnese Fiorino, Pierangelo Veggiotti, Andrea Falini, Giancarlo Comi, Massimo Filippi*
- P03.132** Can We Predict Functional Outcome in Neonates with Hypoxic Ischemic Encephalopathy by Using Neuroimaging and EEG? *Paola Pergami, Nirupama Seemaladinne, Panitan Yossuck, Amy Moyers, Susan Lynch, Jeffrey Carpenter*
- P03.133** Longitudinal Changes in Diffusion Tractography Values in Tuberous Sclerosis *Fiona Baumer, Rudolph Pienaar, Mustafa Sahin, Ellen Grant, Emi Takahashi*
- P03.134** Comparison of MRI Sequences to CT in Identification of Calcified Subependymal Nodules in Tuberous Sclerosis Patients *Amy McGregor, Elena Caron, Freedom Perkins, James Wheless, Asim Choudhri*
- P03.135** Segmental Neurofibromatosis in Children and Adolescents *Shlomit Jessel, Sashi Moodley, Manikum Moodley, A. Rothner*
- P03.136** A Diagnostic Dilemma: Cervical Cord Infarction Caused by Vertebral Artery Dissection and Mimicking a Demyelinating Disease *Yousef Hannawi, Mered Pames, Leah Zhome, Imad Jarjour, Jeffrey Neul, Lisa Nassif*
- P03.137** An Adult Patient with Hypomyelination with Atrophy of the Basal Ganglia and Cerebellum Misdiagnosed as Cerebral Palsy *Indira De Jesus, Ashish Massey, Philip Overby*
- Neuro-Oncology: Neuroimaging and Unusual Clinical Syndromes**
- P03.138** Patterns of Malignant Glioma Relapse after Discontinuing Bevacizumab Prior to Disease Recurrence *Wendy Sherman, Jeffrey Raizer, Sean Grimm*
- P03.139** Clinical, Histopathologic, and Magnetic Resonance Imaging (MRI) Findings in Gliomatosis Cerebri *Ina Ly, Alexander Pine, Anat Stemmer-Rachamimov, Fred Hochberg, Jorg Dietrich*
- P03.140** MRI Findings in Patients with Malignant Gliomas with and without Seizures *Samantha Coffino, Katherine Carroll, Sean Grimm, Jeffrey Raizer, Stephen Futterer*
- P03.141** Atypical Presentation of Oligodendroglioma Masquerading as a Primary CNS Lymphoma *Ashish Anand, Charles Conrad*
- P03.142** Intracranial Inflammatory Pseudotumor: A Report of Two Cases *Anishee Shah, Adil Javed, Rimas Lukas, Kourosh Rezaia*
- P03.143** A Rare Neoplasm Masquerading as an Infectious Process *Jaime Rawson, Andrew Robinson, Patrick Grogan, Scott Marshall*
- P03.144** Uncommon Leptomeningeal and Dural Based Disorders in a Community Based Hospital *Yuri Bronstein, Gregory Pinsky, Mitchell Danesh, Amir Khoiny, Marko Petrovic*
- P03.145** Extramedullary Tumors and Leukemia: A Diagnostic Pitfall for the Neurologist *Jennifer Fugate, Jonathan Graff-Radford, Eelco Wijdicks, Alejandro Rabinstein*
- P03.146** Dysphagia: The Common Thread in Two Uncommon Coexistent Conditions, Glomus Jugulare Tumor and Dysphagia Lusoria *Shivam Mittal, Bahman Jabbari, Duarte Machado*
- Neurologic Manifestations of Systemic Disease: Imaging / Epidemiology**
- P03.147** *In Vitro* and *In Vivo* Imaging of Over-Reduction States (Oxidative Stress) in MELAS Using PET Radiopharmaceutical Cu-ATSM *Makoto Yoneda, Masamichi Ikawa, Yukie Yoshii, Yasunari Nakamoto, Yasuhisa Fujibayashi, Hidehiko Okazawa*
- P03.148** Explosive Onset Seizures in Pregnancy *Christopher McGuigan, Justin Kinsella*
- P03.149** Baseline Demographics in THAOS – The Transthyretin Amyloidosis Outcomes Survey *Teresa Coelho, Mathew Maurer, Violaine Plante-Bordeneuve, Claudio Rapezzi, THAOS Investigators*
- P03.150** The Clinical Factors Related with Hippocampal Lesion of Diffusion MRI in Transient Global Amnesia *Yu Na Cho, Won-Joo Kim*
- P03.151** Encephalitis after Vaccination in United States. A Report from the CDC/FDA Vaccine Adverse Event Reporting System. [1990–2010] *Zaid Al Qudah, Wael Abukwaik, Hemali Patel, Nizar Souayah*
- P03.152** Autoimmune Limbic Encephalitis: PET Imaging Findings of Two Distinct Metabolic Patterns *Eugene Lai, Paul Schulz, Niraj Patel, Ronald Fisher*



## Poster Session III

**P03.153** Burden of Pseudobulbar Affect among Patients with Multiple Sclerosis, Stroke, and Brain Injury: Results from National Patient Surveys *Gregory O'Shanick, Stephen Page, Amy Jensen, Jack Burks, Andrea Formella*

**P03.154** White Matter Hyperintensities and Necrosis in High Altitude Pilots with Neurologic Decompression Sickness *Anthony Brown, Stephen McGuire, Paul Sherman, Peter Kochumov*

**P03.155** Prevalence of Patients with Multiple Neurological Autoimmune Diagnoses *Michael Crescenzi, Nizar Souayah*

**P03.156** The 2005 Global Burden of Diseases Study – A Preview of Things To Come *Gretchen Birbeck*

**P03.157** The Clinical and Radiological Differences between Cerebral Anoxia and Toxic Leukoencephalopathy in the Setting of Drug Overdose *Nawaz Hack, Dominic Fee*

**P03.158** Neurosyphilis Presenting as Acute Symmetrical Bilateral Posterior Cerebral Artery Infarctions: A Case Report *Saad Kanaan, Mohammed Ahmed, Eduardo De Sousa*

**P03.159** A Study of Clinical Manifestations and Neuroimaging Studies in Neurosarcoidosis *Anita Mehta, Jin Luo*

### Anterior Horn: Imaging and Neurophysiology

**P03.160** The Cortical Signature of Amyotrophic Lateral Sclerosis *Paola Valsasina, Federica Agosta, Nilo Riva, Massimiliano Copetti, Michele Perini, Alessandro Prella, Domenico Caputo, Fabrizio Salvi, Maria José Messina, Giancarlo Comi, Massimo Filippi*

**P03.161** Cortical Thinning in Frontal Lobes Is Related with Faster Progression of Amyotrophic Lateral Sclerosis *Isabella Simone, Domenico Mezzapesa, Eustachio D'Errico, Franca Dicuozzo, Stefano Zoccollella, Rosanna Tortelli, Rosa Cortese, Francesco Federico, Giancarlo Logroscino, Paolo Livrea*

**P03.162** White Matter Damage in Amyotrophic Lateral Sclerosis and Primary Lateral Sclerosis: A Tract-Based Spatial Statistics Study *Sebastiano Galantucci, Federica Agosta, Elisa Scola, Adriano Chiò, Nilo Riva, Vincenzo Silani, Elisa Canu, Andrea Calvo, Andrea Falini, Giancarlo Comi, Massimo Filippi*

**P03.163** High-Resolution Pontine 1H-MRS: New Biomarker Marker for ALS *Omar Khan, Fen Bao, Gautam Ramesh, Carla Santiago Martinez, Ronald Bailey*

**P03.164** White Matter Damage in Pure and Complicated Hereditary Spastic Paraparesis *Antonio Scarale, Marina Scarlato, Federica Agosta, Elisa Canu, Maria Bassi, Sara Benedetti, Elisabetta Pagani, Maurizio Ferrari, Giancarlo Comi, Andrea Falini, Maria Sessa, Massimo Filippi*

**P03.165** A Longitudinal Study Comparing Advanced Imaging Techniques for Detecting Progression in ALS *Jonathan Katz, Yu Zhang, Lauren Boreta, Susan Woolley Levine, Norbert Schuff, Michael Weiner*

**P03.166** Progressive Motor Network Degeneration in Amyotrophic Lateral Sclerosis *E. Verstraete, Martijn van den Heuvel, Jan Veldink, Leonard Van den Berg*

**P03.167** Relationship between Follow-Up Cervical Cord <sup>1</sup>H-Magnetic Resonance Spectroscopy and Clinicoelectrophysiological Changes in Amyotrophic Lateral Sclerosis *Ken Ikeda, Kiyoko Murata, Yasuhiro Yoshii, Kiyokazu Kawabe, Takanori Takazawa, Ken Miura, Osamu Kano, Yasuo Iwasaki*

**P03.168** High Frequency of Cervical Spinal Cord Compression during Flexion in Patients with Hirayama Disease *Marc Gotkine, John Gomori, Alon Abraham, Vivian Drory, Sergiu Blumen*

**P03.169** Effect of Neck Flexion on Somatosensory and Motor Evoked Potentials in Hirayama Disease *Alon Abraham, Marc Gotkine, Vivian Drory, Sergiu Blumen*

### Anterior Horn: Other

**P03.170** Multi-Disciplinary ALS Clinics Are Cost-Effective within the Veterans Health Administration *Babar Khokhar, Huned Patwa*

**P03.171** Prevalence and Correlates of Depressive Symptoms in Patients with Amyotrophic Lateral Sclerosis *Lisa Burkholder, Katya Rascovsky, David Libon, Ashley Boller, Emily Camp, Peachie Moore, Lauren Elman, Leo McCluskey, Murray Grossman*

**P03.172** The Cost of ALS Care within the Veterans Health Administration *Babar Khokhar, Huned Patwa*

**P03.173** Measuring Value: Patient Preferences for Riluzole in Amyotrophic Lateral Sclerosis (ALS) *Amy Tsou, Judith Long, Leo McCluskey, Lauren Elman, Katelyn Hoskins, Mark Cary, Jason Karlawish*

**P03.174** Delays in Diagnosing Amyotrophic Lateral Sclerosis *Nazem Atassi, Alexandra Lee, Judith Chang, Eric Macklin, Merit Cudkowicz*

### Anterior Horn: Spinal Muscular Atrophy and TDP43

**P03.175** Motor Unit Pathology in SMA Patients *Melissa Crowder, Michelle Polley, Lingling Kong, James Van Meerbeke, Kelley Murphy, Kathryn Swoboda, Thomas Crawford, Charlotte Sumner*

**P03.176** Gene Corrected Spinal Muscular Atrophy-Induced Pluripotent Stem Cells and Motoneuron as a Model and Cell Source for Transplantation *Stefania Corti, Monica Nizzardo, Chiara Simone, Marianna Falcone, Martina Nardini, Dario Ronchi, Chiara Donadoni, Sabrina Salani, Giulietta Riboldi, Giorgia Menozzi, Clara Bonaglia, Francesca Magri, Nereo Bresolin, Giacomo Comi*

**P03.177** Falls and Spinal Muscular Atrophy (SMA): Exploring Cause and Prevention *Jacqueline Montes, Tara McIsaac, Sally Dunaway, Shirat Kamil-Rosenberg, Douglas Sproule, Carol Garber, Darryl De Vivo, Ashwini Rao*

**P03.178** Regional Cytoplasmic TDP-43 Mislocalization Is Recapitulated in Non-Human Primate Mimicking ALS *Takanori Yokota, Hiroki Sasaguri, Takuya Ohkubo, Hidehiro Mizusawa*

**P03.179** TDP-43 Drives Nuclear Factor- $\kappa$ B Activation in ALS *Jean-Pierre Julien, Vivek Swarup, Nicolas Dupre, Jasna Kriz*

**P03.180** A Novel Alternative Splicing Event Rescues the Mutant Tardbp Phenotype in a Zebrafish Model of TDP-43 Related Amyotrophic Lateral Sclerosis (ALS) *Channa Hewamadduma, Andrew Grierson, Cecilia Moens, Luyuan Pan, Taylor Ma, Philip Ingham, Tonnore Ramesh, Pamela Shaw*

**P03.181** Aberrant Posttranscriptional Regulation and Protein Degradation of TDP-43 and FUS to Stress Response in ALS *Liang Lu, Lei Zheng, Ying Si, Zhongjie Chen, Wenyi Luo, Shin Oh, Peter King*

**P03.182** Activation of Transforming Growth Factor-beta/Smad Signaling Reduces Aggregate Formation of Mislocalized TAR DNA Binding Protein-43 *Masataka Nakamura, Satoshi Kaneko, Hidefumi Ito, Jun-ichi Fujisawa, Hirofumi Kusaka*

**P03.183** Facial Onset Sensory and Motor Neuronopathy: A Neurodegenerative TDP-43 Proteinopathy? *E. Peter Bosch, Jennifer Tracy, Brent Goodman, P. James B. Dyck, Camilo Toro, Caterina Giannini*

**P03.184** Peripheral Immune Cell Functionality in Amyotrophic Lateral Sclerosis *Nichole Mesnard, Thirupathi Muthusamy, Junping Xin, JianRong Sheng, Kathryn Jones, Bellur Prabhakar, Julie Rowin, Matthew Meriggioli*

### Peripheral Nerve: Amyloid and Nutritional

**P03.185** Familial Amyloid Polyneuropathy Associated with S50A, S52P and G47A Mutations *Maria Alejandra Gonzalez Duarte, Karla Cardenas-Soto, Mauricio Berenguer-Sanchez, Deborah Martinez-Baños, Bruno Estanol, Guillermo Garcia-Ramos, Carlos Cantu-Brito*

**P03.186** Clinical Patterns of Neuropathy in Systemic Amyloidosis: Initial Findings and Time from Symptoms Onset to Diagnosis (Hereditary Amyloidosis vs Light-Chain (AL) Amyloidosis Not Associated with Multiple Myeloma) *Vicente Gijon Mitre, Guillermo Garcia, Ervin Chiquete, Alejandra Gonzalez Duarte*

**P03.187** Mass Spectrophotometric Analysis of Focal Neural Amyloid Deposition Reveals Isolated Non-Mutated ApoA1 Amyloidosis *Adam Loavenbruck, Vinay Chaudhry, Steven Zeldenrust, Jason Theis, Christopher Klein*

**P03.188** Clinical and Genetic Characterization of a Kindred with Thr60Ala Transthyretin Familial Amyloid Polyneuropathy *Adam Graham, Dobromir Slavov, Matthew Taylor, Dianna Quan*

**P03.189** Late Onset Cobalamin C Disease: A Case Report of an Adolescent Presenting with Peripheral Neuropathy *Rizwan Bashir, Khema Sharma, Gary Gualberto, Jennifer Carrasquillo*

**P03.190** Methylmalonic Acid Accumulation and the Development of Peripheral Neuropathy *George Francis, Kelsey Hohol, Zaid Jawad, Amit Ayer, Cory Toth*

**P03.191** Copper Deficiency Myeloneuropathy with Hypozincemia Due to Zinc Excess, Gastrectomy, and Low Serum Ceruloplasmin *Anne Josiah, Adrienne Salomon, Danyel Tacker, Ludwig Gutmann*

### Peripheral Nerve: Diabetic

**P03.192** Centella Asiatica Triterpene Extract Is Effective in Treating Diabetic Neuropathy – A Pilot Study *Jau-Shin Lou, Diana Dimitrova, Amala Soumyanath, Heather Belding, Ngoc Le, Nick Seifer, Grace Arnold*

**P03.193** Bioenergetic Metabolites in the Diabetic Peripheral Nervous System *Lucy Hinder, Carolyn Buller, Subramaniam Pennathur, Eva Feldman*

**P03.194** The Cytokine Profile of Diabetic Neuropathy *Leila Maybodi, Norman Ende, Hongxin Chen, Nizar Souayah*

**P03.195** A Novel Marker for Neuroinflammation in Diabetic Neuropathy *Leila Maybodi, Norman Ende, Hongxin Chen, Nizar Souayah*

## Poster Session III

**P03.196** Prevalence of Muscle Cramps in Patients with Diabetes Mellitus *Hans Katzberg, Seint Kokoyi, Bruce Perkins, Vera Brill*

**P03.197** Reduced Kv1-Channel Localization in Juxtaparanodal Regions Mediate Peripheral Nerve Hyperexcitability in Diabetic Neuropathy *Jennifer Zenker, Olivier Poirot, Anne-Sophie de Preux Charles, Estelle Arnaud, Jean-Jacques Médard, Catherine Lacroix, Thierry Kuntzer, Roman Chrast*

**P03.198** Is HbA1c Level a Marker for Severity of Diabetic Distal Symmetric Polyneuropathy? *Alexandra Soriano Caminero, Raghav Govindarajan, Efrain Salgado*

**P03.199** Efficacy of Alpha-Lipoic Acid in the Treatment of Diabetic Polyneuropathy. A Randomized, Double Blind Study *R. O. Millan-Guerrero, Ana García-Ramírez, Oscar González-Pérez, B. Trujillo-Hernández, S. Isais-Millán, F. J. Castillo-Varela*

**P03.200** Quantitative Epidermal Nerve Fiber Density Is More Sensitive Than Sudomotor Test To Detect Neuropathy in Type 2 Diabetes *Eun Hee Sohn, Kyu Sang Song, Ae Young Lee*

**P03.201** Diabetic Amyotrophy Presenting as a Foot Drop *Ezequiel Piccione, Amtul Farheen, Bashar Katirji*

### Peripheral Nerve: Small Fiber and Pain

**P03.202** Neurophysiology and Intraepidermal Nerve Fiber Density in Hereditary Sensory and Autonomic Neuropathy Type 1 (HSAN1) *William David, Anne Louise Oaklander, Jessica Pan, Peter Novak, Robert Brown, Florian Eichler*

**P03.203** The Reliability of Corneal Nerve Fiber Assessment Using Corneal Confocal Microscopy *A. Smith, Gene Kim, Bonnie Keung, Blaine Allen, Michael Porzio, Charles Latner, J. Singleton*

**P03.204** Predictive Value of Autonomic, Quantitative Sensory, and Epidermal Nerve Fiber Density Testing in Small Fiber Peripheral Neuropathy Suspects *Brent Goodman, Benn Smith, Mark Ross, Charlene Hoffman-Snyder, E. Bosch, Lyell Jones*

**P03.205** Validity of Non-Invasive Tests for Small Fiber Neuropathy *Hamid Ebadi, Bruce Perkins, Hans Katzberg, Vera Brill*

**P03.206** Screen Failures in an Idiopathic Neuropathy Pain Clinical Trial *Khosro Farhad, Stacy-Ann Mano, Thomas Brannagan*

**P03.207** Limitations of Skin Biopsy in the Assessment of Isolated Small Fiber Neuropathy *Victoria Lawson, Phillip Mongiovi, William Arnold*

**P03.208** New Useful Tools for Small-Fiber Peripheral Neuropathy Clinical Assessment *Oswaldo Nascimento, Marcos De Freitas, Camila Pupe, Gabriela Dieckmann, Benn Smith, Josep Valls-Sole, Pedro Schestatsky, Andre Matta*

**P03.209** Early Predictors of Progression in Idiopathic Sensory Neuropathy *Jacob Mandel, Adam Quick, Victoria Lawson*

**P03.210** Impaired Glucose Tolerance and HIV Sensory Neuropathy in a High-Risk Population *Naggai Gonzalez-Segarra, Richard Skolasky, Carlos Luciano*

**P03.211** Pain as a Presentation of Hereditary Neuropathy with Liability to Pressure Palsy *Michael Weiss, Dinah Thyerlei*

### Headache I

**P03.212** Frontotemporal Brain Sagging Syndrome (FBSS) Due to Minor Head Trauma *Kimberly Robeson, Nicholas Blondin, Anna Szekely*

**P03.213** Migraine with Prolonged Aura Versus Migrainous Infarction: Multimodality Imaging in a Unique Case *Komal Ashraf, Susan Bowyer, Panayiotis Mitsias*

**P03.214** Headaches That Kill: A Retrospective Study of Incidence, Etiology and Clinical Features in Cases of Sudden Death *Karen Lynch, Francesca Brett*

**P03.215** De Novo Cluster Attacks after Intravenous Nitroglycerin Therapy *Eliz Agopian, Matthew Robbins*

**P03.216** Quadruple Extracranial Arterial Dissection with Reversible Cerebral Vasoconstriction Syndrome (RCVS) in a Habitual Cocaine User Presenting with Thunderclap Headache *John Morren, Raghav Govindarajan, Alexandra Soriano Caminero, Danita Jones, Adriana Rodriguez, Efrain Salgado*

**P03.217** Neurological Findings and Symptoms Associated with Combat-Related Concussion: Impact of Migraine and Other Co-Morbidities *Beverly Scott*

**P03.218** Occipital Neuralgia Secondary to a Spontaneous CSF Leak *Hossein Ansari, Ivan Garza*

**P03.219** WITHDRAWN

**P03.220** Classification of Postconcussive Headaches in Children *John Pugh, Paul Horn, Todd Arthur*

**P03.221** Cost Comparison between the Atraumatic and the Cutting Lumbar Puncture Needles *Christie Tung, Yuen So, Maarten Lansberg*

**P03.222** Spinning out of Control: The Black Box of Basilar Migraine *Paul Mathew, Shruthi Rajashekara, Altaf Saadi*

**P03.223** The Effect of Onabotulinum Toxin A on Chronic Post-Traumatic Headaches Refractory to Standard Preventative Therapy *Carrie Dougherty, Jessica Ailani*

**P03.224** Lacosamide as Adjunctive Therapy for Refractory Trigeminal Neuralgia *Shivang Joshi, Jeffrey Cohen*

**P03.225** Migraine Attacks during Menses: Efficacy of Eletriptan and Relationship to Recurrence after Response *Anjan Chatterjee, Mary Almas*

**P03.226** A Pilot Randomized Controlled Trial of Prophylactic Medications for Chronic Post-Traumatic Headaches in U.S. Army Soldiers *Jay Erickson*

**P03.227** OnabotulinumtoxinA for Treatment of Chronic Migraine: 75% Responder Analysis Results from the Double-Blind, Randomized, Placebo-Controlled Phase of the PREEMPT Clinical Program *David Dodick, H. Diener, Catherine Turkel, Ronald DeGryse, Mitchell Brin*

**P03.228** A Drug Interaction Study Assessing the Effects of CYP3A4 Inhibition on the Pharmacokinetics of MAP0004, an Orally Inhaled Formulation of Dihydroergotamine in Healthy Volunteers *Amy Forst, Don Kellerman, Shashidhar Kori, Salvatore Febraro, Lan Tann, Tracy Thomas, Glyn Taylor*

**P03.229** Successful Treatment of Idiopathic Intracranial Hypertension (IIH) with Octreotide *Ashish Vyas, Jayant Phadke*

**P03.230** The Percent of Chronic Migraine Patients Who Responded to OnabotulinumtoxinA Treatment Per Treatment Cycle in the PREEMPT Clinical Program *Stephen Silberstein, David Dodick, Ronald DeGryse, Richard Lipton, Catherine Turkel*

**P03.231** Headache Direction and Aura Predicts Migraine Responsiveness to Rimabotulinumtoxin B *Patrick Grogan, Maria Alvarez, Lyell Jones*

**P03.232** Long-Term Safety and Tolerability of Rizatriptan for Intermittent Acute Treatment of Migraine in Pediatric Migrants *David Hewitt, Eric Pearlman, Donald Lewis, Mirja Hämäläinen, Kathryn Connor, David Michelson, Paulette Ceesay, Robert Bachman, Lyn Harper-Mozley, Nicole Dupre, Nancy Strickler, Erin Mahoney, Christopher Lines, Tony Ho*

**P03.233** Real-World Economic Impact of OnabotulinumtoxinA in Patients with Chronic Migraine *John Rothrock, Lisa Bloudek, Timothy Houle, Diane Andress-Rothrock, Christopher Hanlon, Sepideh Varon*

**P03.234** In-Office Intravenous Treatment for Intractable Headaches *Ruth Bland, Kathie Clarke, Todd Levine*

**P03.235** IV Baclofen for Treating Migraines Accompanied by Severe Muscle Spasm in Outpatient Setting *John Krusz, Jane Cagle*

**P03.236** Medication Overuse Headache: In-Patient Drug Withdrawal. Experience of a Derivation Centre in Argentina *Verónica Bruno, Laura Negrotto, Julieta Arena, Karina González Otárola, María Goicochea, Lucas Bonamico, Jorge Leston*

**P03.237** Low Saturated Fat Diet Is Effective in Trigeminal Neuralgia *Narayan Verma, Frank Sherwood*

**P03.238** Nausea Associated with Dihydroergotamine Is a Function of Maximum Concentration and Not Route of Administration *Don Kellerman, Shashidhar Kori, Amy Forst*

**P03.239** Eletriptan Provides Consistent Migraine Relief: Results of a Within-Patient Multiple-Dose Study *Mary Almas, Stewart Tepper, Stephen Landy, Elodie Ramos*

**P03.240** Efficacy and Tolerability of Rizatriptan for Treatment of a Single Migraine Attack in Pediatric Migrants: Results from a Randomized, Double-Blind, Placebo-Controlled Trial Using a Novel Enrichment Design *Tony Ho, Eric Pearlman, Donald Lewis, Mirja Hämäläinen, Kathryn Connor, David Michelson, Ying Zhang, Lyn Harper-Mozley, Nancy Strickler, Robert Bachman, Erin Mahoney, Christopher Lines, David Hewitt*

**P03.241** Atypical Facial Pain: A Rare Sentinel Manifestation of Lung Cancer *David Drachman, Jiaying Zhang*

### Infections/AIDS/Prion Disease

**P03.242** Infectious Diseases, Related Vaccinations, and Risk of Multiple Sclerosis Later in Life: A Case-Control Study *Ali Amini Harandi, Hossein Pakdaman, Mohammad Ali Sahraian, Seyed Kazem Hosseini*

**P03.243** Meningitis after Vaccination in United States, a Report from the CDC/FDA Vaccine Adverse Event Reporting System [1990–2010] *Zubeda Sheikh, Wael Abukwaik, Nizar Souayah*

**P03.244** Calcified Neurocysticercosis among Patients with Primary Headache *Victor Del Brutto, Oscar Del Brutto*

**P03.245** Usefulness of Lactate in Cerebrospinal Fluid for Diagnosis of Postoperative Bacterial Meningitis *Maria Gonzalez Toledo, Agustin Jauregui, Francisco Muñoz Giacomelli, Fátima Pagani Cassará, Noelia Pontello, Juan Manuel Racosta, Analía Calle*

**P03.246** Lyme Neuroborreliosis and Proton MR Spectroscopy: Preliminary Results from an Urban Referral Center Employing Strict CDC Criteria for Case Selection *David Younger, William Wu, Caitlin Hardy, Nissa Perry, Oded Gonen*

## Poster Session III

**P03.247** Time Trends in Case Fatality among Patients Admitted for Tetanus in Lagos *Mustapha Danesi, Temitope Lawal, Francis Ojini, Njide Okubadejo, Oluwadamilola Ojo*

**P03.248** JHH Reaction Causing Stroke in a Dementia Paralytica Patient *Vineet Punia, Adithya Sivaraju, Appaji Rayi, Sarah Speranza*

**P03.249** Quadriplegia Secondary to an Epidural Tuberculous Abscess *Camilo Garcia-Gracia, Karla Arce, Giorgio Tarchini*

**P03.250** Tuberculous Meningitis in a Healthy Young Woman: Case Report and Review of Literature *Sunil Mutgi, Diana Greene-Chandos, Michel Torbey, Reza Behrouz*

**P03.251** Rare Case of Recurrent Meningitis Due to Neurocysticercosis *Megha Dhamne, Santosh Murthy, Joseph Kass*

**P03.252** Neurosarcooidosis with Granulomatous Necrosis *Umang Shah, Melissa Carran*

**P03.253** Eikenella Corrodens Brain Abscess: A New Case and Comprehensive Review *Nushan Gunawardana, Robin Smith*

**P03.254** Probable Creutzfeldt-Jakob Disease after Ingestion of Bovine Brain *Leslie McDougall, Max Lowden*

**P03.255** Viral Encephalitis in Hong Kong – A Hospital-Based Study *Gary Lau, Alan Tse, Richard Chang, Shirley Pang, Jacky Lee, Shu Leong Ho, Koon Ho Chan*

**P03.256** Jamestown Canyon Virus: A Potential Cause for Acute Inflammatory Polyneuropathy? *Nailyn Rasool, Timothy Benstead, Mike Drebot, Todd Hachette*

**P03.257** The Alien Limb Phenomenon & Creutzfeldt-Jakob Disease *Mark Rubin, Jonathan Graff-Radford, Bradley Boeve, Keith Josephs, Allen Aksamit*

**P03.258** Development and Validation of a Neurological Disability Scale for Patients with HTLV-1 Associated Myelopathy/Tropical Spastic Paraparesis (HAM/TSP): The IPEC-1 Scale *Felipe Schmidt, André Luiz Oliveira, Abelardo Araujo*

**P03.259** Sporadic CJD (VV2 Type) Presenting with Central Vestibular Abnormalities *Jacob Mandel, John Oas*

**P03.260** Epidemiology of Creutzfeldt-Jacob in Chile. Morbidity and Mortality *Violeta Diaz, Carlos Silva, Juan Antinao, Cesar Espinoza, Sebastian Henriquez, Carla Parra*

**P03.261** Do Proteins Capable of Causing Spongiform Neurodegeneration Induce Aggresomes *In Vitro* and *In Vivo* as an Indicator of Their Neurotoxic Mechanisms? *Alvin Das, Jaclyn Dunphy, Sandra Cardona, William Lynch*

**P03.262** Crossed Cerebellar Diaschisis in Sporadic CJD: MRI, PET and Neuropathologic Findings *Harinder Dhaliwal, Daryl Wile, Justyna Sama, Christine Molnar, James Scott, Fiona Costello, Jeffrey Joseph, Sarah Furtado*

**P03.263** The Role of Nuclear Factor- $\kappa$ B in Oxidative Stress Associated with Rabies Virus Infection *Alan Jackson, Wafa Kammouni, Leena Hasan, Paul Fernyhough*

**P03.264** West Nile Virus Infection Associated with Central Nervous System Vasculitis and Strokes *Sahar Zafar, Debadutta Dash, Michael Chachere, Jennifer Cowart, Joseph Kass*

### Medical Student Essay Award Recipients

**P03.265** Autophagy Promotes Niemann-Pick Type C Disease Pathogenesis by Enhancing Lipid Storage and Lysosomal Dysfunction *Matthew Elrick*

**P03.266** The Pharmacogenomics of Vincristine-Induced Neurotoxicity in Pediatric Cancer Patients *Tenneille Loo*

**P03.267** Native Americans in Neurology: Cultural and Ethnobotanical Lessons *Jessica Shields*

**P03.268** Long Non-coding RNAs are Ddysregulated in Autism Brain *Mark Ziats*

## NEW! Controversies in Neuroscience Session

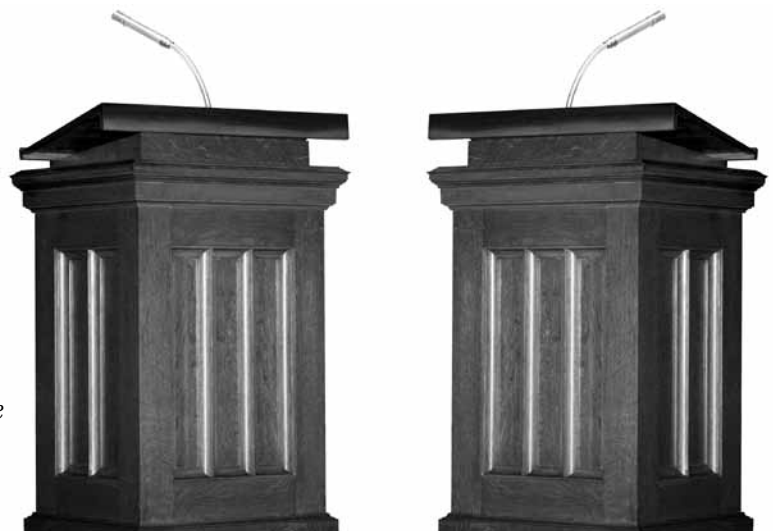
### Wednesday, April 25

2:00 p.m.–5:00 p.m.

Join 10 experts in their fields as they discuss five of today's most controversial topics in neuroscience. Using the debate format, two speakers will take questions and answers—and challenge each other's knowledge—in each of the following five topic areas:

- ALS (Pacer/TROPHOS trials)
- Stenting vs. Surgery (CREST trial)
- CSF and Alzheimer's Disease Biomarkers
- Autism/Tourette's Therapy
- How Much Adult Neurology Training Does a Child Neurologist Need?

For more information, visit [www.aan.com/go/am12/science](http://www.aan.com/go/am12/science)



- S11**  
**Multiple Sclerosis: Clinical Trials: Imaging Outcomes**
- 3:00 p.m. S11.001**  
Effects of BG-12 on Magnetic Resonance Imaging (MRI) Endpoints in Patients with Relapsing-Remitting Multiple Sclerosis (RRMS): Data From the Phase 3 CONFIRM Study *David Miller, Robert Fox, J. Theodore Phillips, Mariko Kita, Michael Hutchinson, Eva Havrdova, Ray Zhang, Vissia Viglietta, Katherine Dawson*
- 3:15 p.m. S11.002**  
The CombiRx Trial: A Multi-Center, Double-Blind, Randomized Study Comparing the Combined Use of Interferon Beta-1a and Glatiramer Acetate to Either Agent Alone in Participants with Relapsing Remitting Multiple Sclerosis – MRI Outcomes *Jerry Wolinsky, Ponnada Narayana, Flavia Nelson, Sushmita Datta, Stacey Cofield, Gary Cutter, Robin Conwit, Tarah Gustafson, Fred Lublin, The CombiRx Investigators*
- 3:30 p.m. S11.003**  
Effect of BG-12 on Brain Atrophy and Lesions Volume: MRI Results from the DEFINE Study during First and Second Year of Treatment *Douglas Arnold, Ralf Gold, Ludwig Kappos, Amit Bar-Or, Gavin Giovannoni, Krzysztof Selmaj, Ray Zhang, Monica Stephan, Katherine Dawson*
- 3:45 p.m. S11.004**  
Effects of BG-12 on Magnetization Transfer Ratio in Whole Brain and Normal-Appearing Brain Tissue: Findings from the DEFINE Study *Douglas Arnold, Ralf Gold, Ludwig Kappos, Amit Bar-Or, Gavin Giovannoni, Krzysztof Selmaj, Minhua Yang, Monica Stephan, Katherine Dawson*
- 4:00 p.m. S11.005**  
MRI Findings of BOLD: A Phase 2 Dose-Finding Study Using Adaptive Design and Modeling Methods for BAF312 in Relapsing-Remitting MS *David Li, Krzysztof Selmaj, Guojun Zhao, Yan Cheng, Francois Mercier, Erika Rochotte, Erik Wallstrom*
- 4:15 p.m. S11.006**  
Effect of Alemtuzumab vs. Rebif® on Brain MRI Measurements: Results of CARE-MS I, a Phase 3 Study *Douglas Arnold, Vesna Brinar, Jeffrey Cohen, Alasdair Coles, Christian Confavreux, Elizabeth Fisher, Edward Fox, Gavin Giovannoni, Hans Hartung, Eva Havrdova, Krzysztof Selmaj, Howard Weiner, Miroslav Stojanovic, Stephen Lake, David Margolin, Michael Panzara, Alastair Compston*
- S12**  
**Ataxia and Cerebellar Disease**
- 3:00 p.m. Presentation of the Jon Stolk Award in Movement Disorders for Young Investigators**  
*Recipient: Pedro Gonzalez-Alegre, MD, PhD Iowa City, IA*
- 3:15 p.m. S12.002**  
Clinical Characteristics of Spinocerebellar Ataxias 1, 2, 3 and 6 *Tetsuo Ashizawa, Susan Perlman, Christopher Gomez, George Wilmot, Jeremy Schmahmann, Sarah Ying, Theresa Zesiewicz, Henry Paulson, Vikram Shakkottai, Khalaf Bushara, Pietro Mazzoni, Sheng-Han Kuo, Stefan Pulst, Karla Figueroa, Guangbin Xia, Jeffrey Krischer, David Cuthbertson, Amy Roberts Holbert, John Ferguson, Wendy Galpern, S. Subramony*
- 3:30 p.m. S12.003**  
Prior Molecular Diagnostic Accuracy and Age of Disease Onset Variation in the CRC-SCA, a Multicenter Study of Spinocerebellar Ataxias *Karla Figueroa, Christopher Gomez, Henry Paulson, Susan Perlman, Jeremy Schmahmann, S. Subramony, George Wilmot, Theresa Zesiewicz, Tetsuo Ashizawa, Stefan Pulst*
- 3:45 p.m. S12.004**  
Sample Size Estimation for Future Therapeutic Trials in SCAs *Sophie Tezenas Du Montcel, Perrine Charles, Cyril Goizet, Cecilia Marelli, Mathieu Anheim, Lucie Guyant-Marchal, Alice Le Bayon, Nadia Vandenberghe, Maia Tchikviladze, David Devos, Isabelle Le Ber, Karine N'Guyen, Cecile Cazeneuve, Chantal Tallaksen, Alexis Brice, Alexandra Durr*
- 4:00 p.m. S12.005**  
Episodic Ataxia Type 1: Characterization of the Disease and Its Effect on Quality of Life *Tracey Graves, Yoon-Hee Cha, Angelika Hahn, Richard Barohn, Anthony Amato, Robert Griggs, Brian Bundy, Joanna Jen, Robert Baloh, Michael Hanna*
- 4:15 p.m. S12.006**  
Progression of Idiopathic Late Onset Cerebellar Ataxia *Helio Teive, Renato Munhoz, Walter Arruda, Lineu Werneck*
- S13**  
**Disparities in and Risk Factors for Ischemic Stroke**
- 3:00 p.m. Presentation of the Michael S. Pessin Stroke Leadership Prize Award**  
*Recipient: Natalia Rost, MD Boston, MA*
- 3:15 p.m. S13.002**  
Do Demographic Disparities in Neuroimaging Utilization Exist in Stroke? The REGARDS Experience *James Rhodes, Olufemi Aduroja, Suzanne Judd, Dawn Kleindorfer, Brett Kissela, Monika Safford, Aaron Anderson, Virginia Howard, George Howard*
- 3:30 p.m. S13.003**  
High Sensitivity C-Reactive Protein to Interleukin 6 Ratio and Ischemic Stroke Risk in a Multi-Ethnic Cohort: The Northern Manhattan Study *Jorge Luna, Yeseon Moon, Khin Liu, Sandino Cespedes, Steven Spitalnik, Myunghee Paik, Ralph Sacco, Mitchell Elkind*
- 3:45 p.m. S13.004**  
Disparities in Stroke Incidence among White, Black and Hispanics in the Northern Manhattan Study *Valeria Battistella, Yeseon Moon, Consuelo Mora-McLaughlin, Clinton Wright, Tatjana Rundek, Myunghee Paik, Ralph Sacco, Mitchell Elkind*
- 4:00 p.m. S13.005**  
Gross Domestic Product and Health Expenditure Associated with Incidence, 30-Day Fatality and Age at Stroke Onset: A Systematic Review *Luciano Sposato, Gustavo Saposnik*
- 4:15 p.m. S13.006**  
Stroke Incidence in Older US Hispanics: Is Foreign Birth Protective? *J. Robin Moon, M. Maria Glymour*
- S14**  
**Aging and Dementia: Diagnosis and Biomarkers**
- 3:00 p.m. S14.001**  
Improving Diagnostic Accuracy for Dementia: CSF Biomarker Cutoffs Based on Clinical and Neuropathological Criteria *Jon Toledo, Johannes Bretschneider, Murray Grossman, Steven Arnold, William Hu, Sharon Xie, Virginia Lee, Leslie Shaw, John Trojanowski*
- 3:15 p.m. S14.002**  
Cerebrospinal Fluid beta-Amyloid 1-42 Solubility Is Influenced by Apolipoproteins E and J *William Hu, Sundeep Basra, Kelly Watts, Jonathan Glass, James Lah, Allan Levey*
- 3:30 p.m. S14.003**  
Microglial Microvesicles as Potential Biomarkers for Dementia *Dacia Dalla Libera, Alessandra Bergami, Federica Agosta, Giuseppe Magnani, Vittorio Martinelli, Gianvito Martino, Giancarlo Comi, Massimo Filippi, Claudia Verderio, Roberto Furlan*
- 3:45 p.m. S14.004**  
CSF Biomarkers Findings in a Large Rapidly Progressive Dementia Cohort *Sven Fomer, Katherine Wong, Alan Bostrom, Leonel Takada, Carmela Tartaglia, Aissatou Haman, Charles Torres-Chae, Benjamin Raudabaugh, Gillian Devereux, Bruce Miller, Michael Geschwind*
- 4:00 p.m. S14.005**  
Differential Rates of Brain Volume Loss as a Function of Time To Develop AD among Cognitively Normal Individuals *James Becker, Leonid Teverovskiy, H. Gach, Owen Carmichael, Paul Thompson, Lewis Kuller, Oscar Lopez*
- 4:15 p.m. S14.006**  
Frequency of Frontal Hypometabolism in Autopsy Confirmed AD Subjects *Lindsey Minshew, Norman Foster, Richard King, Angela Wang, Steven Chin*
- S15**  
**Muscular Dystrophy**
- 3:00 p.m. S15.001**  
Defining Dystrophin-Specific T Cells in DMD Population *Laurence Viollet, Katie Campbell, William Bremer, Chelsea Rankin, Christopher Shilling, Kevin Flanigan, Christopher Walker, Jerry Mendell*
- 3:15 p.m. S15.002**  
Osteopontin in Duchenne Muscular Dystrophy *Elena Pegoraro, Luca Bello, Luisa Piva, Andrea Barp, Mario Ermani, Luisa Politano, Eugenio Mercuri, Stefano Previtali, Yan Torrente, Claudio Bruno, Carlo Minetti, Angela Berardinelli, Giacomo Comi, Adele D'Amico, Gianni Soraru, Sonia Messina, Tiziana Mongini, Enrico Bertini, Alessandra Ferlini, Francesca Gualandi, Roberta Battini, Patrizia Boffi, Marika Pane, Giuseppe Vita, Eric Hoffman, Corrado Angelini*
- 3:30 p.m. S15.003**  
Natural History of Cardiomyopathy in Duchenne Muscular Dystrophy and the Effects of Angiotensin-Converting Enzyme Inhibitor with or without  $\beta$ -Blocker *Philip Thrush, Laurence Viollet, Kevin Flanigan, Jerry Mendell, Hugh Allen*
- 3:45 p.m. S15.004**  
Results from a National Cross-Sectional Study of Disease-Burden in Facioscapulohumeral Muscular Dystrophy (FSHD) *Chad Heatwole, Rita Bode, William Martens, Michael McDermott, Richard Moxley, Christine Quinn, Alrabi Tawil, Nan Rothrock, Barbara Vickrey, David Victorson, Nicholas Johnson*
- 4:00 p.m. S15.005**  
Anoctamin 5 Mutations Are a Frequent Cause of Limb Girdle Muscular Dystrophy and of the Miyoshi-Type Muscular Dystrophy in the Netherlands *Marianne De Visser, Anneke van der Kooij, W. H. J. P. Linszen, Ieke Ginjaar, John Wokke, Pieter Van Doorn*
- 4:15 p.m. S15.006**  
Limb Girdle Muscular Dystrophy Type 2L (Anoctamin 5 Deficiency): Cardiac Involvement and Characterization of the Skeletal Muscle Phenotype *John Vissing, Nanna Witting, Helle Lauritsen, Morten Duno*

- S16 Headache I**
- 3:00 p.m. S16.001**  
Polymorphisms in the Proinflammatory Cytokines Genes and Response to NSAIDs in Migraine Attacks *Elisa Rubino, Paola De Martino, Elisa Negro, Salvatore Gallone, Pierpaola Fenoglio, Alessandro Vacca, Flora Govone, Lidia Savi, Lorenzo Pinessi, Innocenzo Rainero*
- 3:15 p.m. S16.002**  
Minimum Conditions for the Induction of Cortical Spreading Depression: Implications for Migraine with Aura *K. C. Brennan, Tanye Tang, Hector Lopez-Valdes, Andrew Charles, Y. Sungtaek Ju*
- 3:30 p.m. S16.003**  
Chronic Daily Headache Is Associated with Somatoform Vertigo and Dizziness *Mark Obermann, Dagny Holle, Ralph Weber, Steffen Naegel, Hans-Christopher Diener, Zaza Katsarava*
- 3:45 p.m. S16.004**  
Atypical Resting State Functional Connectivity of Pain Regions in Chronic Migraine *Todd Schwedt, Bradley Schlaggar, Soe Mar, Tracy Nolan, Rebecca Coalson, Binyam Nardos, Tammie Benzinger, Linda Larson-Prior*
- 4:00 p.m. S16.005**  
Quantification of Cortical Thickness and Cortical Surface Area Abnormalities in Patients Affected by Migraine *Roberta Messina, Maria Rocca, Paola Valsasina, Bruno Colombo, Andrea Falini, Giancarlo Comi, Massimo Filippi*
- 4:15 p.m. S16.006**  
No Evidence of Cortical Lesions in Migraine Patients: A Double Inversion Recovery Study *Martina Absinta, Maria Rocca, Bruno Colombo, Donatella De Feo, Roberta Messina, Andrea Falini, Giancarlo Comi, Massimo Filippi*
- S17 Neurologic Education**
- 3:00 p.m. S17.001**  
July Effect: Myth or Reality? Comparing July Effect on Acute Ischemic Stroke Short-Term Outcomes and Resource Utilization *Keyur Patel, Yogesh Moradiya, Nawaf Murshed, Omar Ahmad, Lori Schuh*
- 3:15 p.m. S17.002**  
Neurology Residents' Empathy Can Be Enhanced with an Educational Intervention: A Randomized, Controlled Trial *Lara Cooke, Jephtha Davenport, Penelope Smyth, Edward Atkins, Justyna Sama*
- 3:30 p.m. S17.003**  
NEX Ratings Correlate Weakly between Local and External Examiners with and without ABPN Experience *Zachary London, Lori Schuh, Douglas Gelb, Lonni Schultz*
- 3:45 p.m. S17.004**  
Medical Simulation of Sentinel Events from the Epilepsy Monitoring Unit (EMU): Validation of a Team Training Curriculum *Barbara Dworetzky, Sarah Peyre, Ellen Bubrick, Tracey Milligan, Charles Pozner*
- 4:00 p.m. S17.005**  
Standardized Sign Out Improves Communication Skills *Brian Moseley, Jonathan Smith, Gloria Diaz-Medina, M. Paz Soldan, Meredith Wicklund, Radhika Dhamija, Haatem Reda, Michael Presti, Jeffrey Britton*
- 4:15 p.m. S17.006**  
EMR-Driven Medical Education: A Multi-Institutional Study of Clinician Perspectives *Alon Seifan, Morgan Mandigo, Ralph Jozefowicz, Raymond Price, Steven Galetta, Amir Jaffer, Stephen Symes, Joseph Safdieh, Andrew Tarulli, Richard Isaacson*
- S18 Sleep Disorders**
- 3:10 p.m. Presentation of the Wayne A. Hening Sleep Medicine Investigator Award**  
*Recipient: Jeffrey Ellenbogen, MD, MMSc Boston, MA*
- 3:15 p.m. Presentation of the Sleep Science Award**  
*Recipient: Beth Malow, MD, MS Nashville, TN*
- 3:30 p.m. S18.003**  
Pharmacological Dissociation of Periodic Leg Movements from Cortical Arousals in Restless Legs Syndrome *Mauro Manconi, Raffaele Ferri, Marco Zucconi, Claudio Bassetti, Stephany Fulda, Luigi Ferini-Strambi*
- 3:45 p.m. S18.004**  
Floppy Epiglottis as a Contraindication of CPAP in Patients with Multiple System Atrophy *Takayoshi Shimohata, Masahiko Tomita, Hideaki Nakayama, Naotaka Aizawa, Tetsutaro Ozawa, Masatoyo Nishizawa*
- 4:00 p.m. S18.005**  
Endothelial Dysfunction in Stroke: The Role of Sleep Disordered Breathing (SDB) *Carlo Cereda, Mauro Manconi, Jennifer Andreotti, Jane Frangi-Kultalahti, Claudio Bassetti*
- 4:15 p.m. S18.006**  
You Might Want To Sleep on It: Acute but Not Chronic Deprivation Alters Learning and Memory, and LTP, in a Mouse Model *Stephanie Chen, Eli Wallace, Kyemin Kim, Do Young Kim, B. Blair Braden, Heather Bimonte-Nelson, Rama Maganti*
- S19 Ischemic Cerebrovascular Disease and Subarachnoid Hemorrhage**
- 3:00 p.m. S19.001**  
Immune Response to Cerebral Ischemia To Identify Ischemic Transient Neurological Events *Glen Jickling, Xinhua Zhan, Boryana Stamova, Bradley Ander, Shara-Mae Sison, Piero Verro, S. Johnston, Frank Sharp*
- 3:15 p.m. S19.002**  
Dynamic Cerebral Autoregulation Is Transiently Impaired after Large-Vessel Acute Ischemic Stroke *Nils Petersen, Santiago Ortega-Gutierrez, Andres Reccius, Amy Huang, Arjun Masurkar, Randolph Marshall*
- 3:30 p.m. S19.003**  
Improved Clinical Outcomes in Medicare Beneficiaries with Acute Ischemic Stroke during Initial Implementation of the Get with the Guidelines-Stroke Program 2003-2008 *Sarah Song, Gregg Fonarow, Wenqin Pan, DaiWai Olson, Adrian Hernandez, Eric Peterson, Mathew Reeves, Eric Smith, Lee Schwamm, Jeffrey Saver*
- 3:45 p.m. S19.004**  
Impact of Underfeeding and Protein Catabolism on Hospital-Acquired Infections after Subarachnoid Hemorrhage *Neeraj Badjatia, Aimee Monahan, Amanda Carpenter, Laura Friedman, Jacqueline Zimmerman, J. Michael Schmidt, Jan Claassen, Kiwon Lee, Sander Connolly, Stephan Mayer, Wahida Karmally, David Seres*
- 4:00 p.m. S19.005**  
How Does Cardiac MRI Improve Identification of Etiology of Ischemic Stroke? *Ashkan Mowla, Alex Baher, Dipan Shah, John Volpi*
- 4:15 p.m. S19.006**  
White Matter Hyperintensity Predicts Early Ischemic Stroke Recurrence *Gyeong-Moon Kim, Ethem Murat Arsava, Johanna Helenius, A. Y. Hakan*
- S20 Multiple Sclerosis: Genetics**
- 3:00 p.m. Presentation of the Bruce S. Schoenberg International Award in Neuroepidemiology**  
*Recipient: Amir Hadi Maghzi, MD Isfahan, Iran*
- 3:30 p.m. S20.003**  
A Genetic Model To Predict Response to Glatiramer Acetate Developed from a Genome Wide Association Study (GWAS) *Fabio Macciardi, Jeffrey Cohen, Manuel Comabella Lopez, Giancarlo Comi, Gary Cutter, Eli Eyal, Massimo Filippi, Joseph Levy, Fred Lublin, Xavier Montalban, Jorge Oksenberg, Amir Tchelet, Sagit Weiss, Jerry Wolinsky*
- 3:45 p.m. S20.004**  
Do Particular Antibody Genes Drive Development of MS? *Nancy Monson, William Rounds, Ann Ligoeki, Douglas Bigwood, Eric Eastman, Benjamin Greenberg, Elliot Frohman, Lindsay Cowell*
- 4:00 p.m. S20.005**  
Suppression of RNA-Polymerase 1 Pathway Is Associated with Benign Multiple Sclerosis *Michael Gurevich, Anat Achiron*
- 4:15 p.m. S20.006**  
Genetic Determinants of IgG Synthesis in the Cerebrospinal Fluid of Patients with Multiple Sclerosis *Dorothea Buck, Eva Albrecht, Muhammad Aslam, Natalie Hauenstein, Angela Jochim, Sabine Cepok, Verena Grummel, Achim Berthele, Peter Lichtner, Christian Gieger, Juliane Winkelmann, Bernhard Hemmer*

## Annual Meeting Program— Now Online Only!

In an effort to be conscious of the environment and to begin establishing a searchable archive of meeting abstracts, all scientific abstracts for the 2012 Annual Meeting will only be available online through the Abstracts Online and *Neurology.org* websites. See page 19 of this book to learn more.

Tuesday, April 24

## Hot Topics Forum

5:15 p.m.–6:15 p.m.



**Moderator: Jose Merino, MD, M Phil**  
**Member, Science Committee**

Members of the AAN Science Committee and AAN Scientific Program Subcommittee will note important and interesting abstracts presented at subspecialty meetings leading up to the Annual Meeting that are not on the program but should be heard by a wide audience at the Annual Meeting.

### **Sex Differences in the Bioenergetic Aging of the Brain: Implications for Alzheimer's Disease Risk**

Roberta Diaz Brinton, PhD, University of Southern California

### **Searching for Genetic Influences on Brain Structure**

Jason Stein, PhD, University of California Los Angeles

### **Transynaptic Propagation of Tau Pathology: Neuroanatomical Considerations, Mechanistic Insight, and Clinical Implications**

Karen Duff, PhD, Columbia University

### **CSF as Growth Factors**

Christopher Walsh MD, PhD, Childrens Hospital Boston

**For Full Abstracts and Bios for Plenary Speakers Visit [www.aan.com/view/plenary](http://www.aan.com/view/plenary)**



## Poster Discussion Session: Movement Disorders: Parkinson's Disease

**PD4.001** Suppression of NF- $\kappa$ B Activation and Inflammation in Glial Cells by RNS60, a Novel Therapeutic: Implications for Neurodegenerative Disorders *Saurabh Khasnavis, Arundhati Jana, Avik Roy, Tony Wood, Supurna Ghosh, Richard Watson, Kalipada Pahan*

**PD4.002** Differences in Connectivity among the Basal Ganglia, Cerebellum, and Supplementary Motor Area in Parkinson's Disease and Healthy Controls during Predictive Motor Timing *Martin Bares, Ivica Husarova, Michal Mikl, Ovidiu Lungu, Radek Marecek, Jiri Vanicek*

**PD4.003** An Exploratory Analysis on Gene-Environment Interactions for Parkinson Disease *Jianjun Gao, Michael Nalls, Min Shi, Bonnie Joubert, Dena Hernandez, Xuemei Huang, Albert Hollenbeck, Andrew Singleton, Honglei Chen*

**PD4.004** Familial Aggregation of Essential Tremor and Parkinson's Disease *Shinsuke Fujioka, Rana Hanna Al-Shaikh, Christina Sundal, Audrey Strongosky, Owen Ross, Zbigniew Wszolek*

**PD4.005** Cannabis Smoking for Treatment of Parkinson's Disease *Itay Lotan, Therese Treves, Yaniv Roditi, Ruth Djalldetti*

**PD4.006** Comparison of Movement Disorder Society Criteria for Parkinson's Disease Dementia with Routine Clinical Neuropsychological Testing *Brandon Barton, Bryan Bernard, Glenn Stebbins, Jennifer Goldman, Bruno Dubois, Christopher Goetz*

**PD4.007** Estimating the Cumulative Risk of PD in Carriers of Parkin Mutations: The CORE-PD Study *Karen Marder, Ming-Xin Tang, Roy Alcalay, Llency Rosado, Helen Mejia-Santana, Elise Caccappolo, Diana Ruiz, Martha Orbe-Reilly, Barbara Ross, Elan Louis, Cynthia Comella, Amy Colcher, Andrew Siderowf, Danna Jennings, Martha Nance, Michael Rezak, Kevin Novak, Joseph Friedman, Ronald Pfeiffer, Laura Marsh, Bradley Hiner, Haydeh Payami, Eric Molho, Stewart Factor, Susan Bressman, William Scott, Caroline Tanner, Susan Mickel, Howard Andrews, Cheryl Waters, Lucien Cote, Steven Frucht, Blair Ford, Miguel Verbitsky, Sergey Kisselev, Ruth Ottman, Lorraine Clark*

**PD4.008** Comparison of Clock Scoring Methods in Detecting Mild Cognitive Impairment and Dementia in Parkinson's Disease *Jennifer Goldman, Rachel Bernard, Bryan Bernard, Glenn Stebbins*

**PD4.009** Decreased Vestibular Efficacy Contributes To Balance Impairment in Parkinson Disease *Nicolaas Bohnen, Roger Albin, Vikas Kotagal, Kirk Frey, Martijn Muller*

**PD4.010** IncobotulinumtoxinA (Xeomin®) Is Well Tolerated for the Treatment of Blepharospasm When Injected According to Patient Needs *Virgilio Gerald Evidente, Matthew Brodsky, Stephen Gollomp, Michael Marx, Angelika Hanschmann, Joseph Jankovic*

**PD4.011** Functional Reorganization in Sensorimotor Cortex Is a Compensatory Mechanism in Early Parkinson's Disease: A Six Months Follow-Up Study *Maja Kojovic, Panagiotis Kassavetis, Matteo Bologna, Alfredo Berardelli, John Rothwell, Mark Edwards, Kailash Bhatia*

**PD4.012** Association Study between Clock Genes Variants and Depression in Parkinson's Disease in Han Chinese *Weiguo Liu, Ping Hua, Yanyan Zhao, Lin Chen, Ning Zhang, Sheng-Han Kuo*

## History of Neurology

**P04.001** George Crile, Carl Wiggers, and Claude Beck: The Orgins of Advanced Cardiac-Cerebral Life Support *Neha Dangayach, Michael DeGeorgia*

**P04.002** Declining Use of the Hallervorden-Spatz Disease Eponym in the Last Two Decades *Lawrence Zeidman, Dilip Pandey*

**P04.003** Pseudobulbar Affect in Stroke in Statesmen: The Peculiar Case of Winston Spencer Churchill *Benjamin Brooks*

**P04.004** Beriberi without White Rice *Douglas Lanska*

**P04.005** Dr. Joseph Foley – Case Western Reserve's Living Legend *Tanzila Shams, Fareeha Ashraf, Michael DeGeorgia*

**P04.006** Charles Franklin Hoover and the Hoover Sign *Tanzila Shams, Fareeha Ashraf, Michael DeGeorgia*

**P04.007** History of Neurology in India *Justin Cheongiatmy, Shrikant Mishra*

**P04.008** Trephination and Intentional Cranial Deformations in Ancient Pre-Columbian Cultures *Francisco Carod, Carolina Vazquez Cabrera*

**P04.009** Evoking Potentials from the Brain *Edward Fine, Nina Riggins, Osman Farooq*

## Epilepsy: Clinical Neurophysiology

**P04.010** Ideal Study Length for Routine Pediatric Electroencephalograms *Matt Lallas, Leigh Ramos-Platt*

**P04.011** Diagnostic Yield of Electroencephalography Is Substantial in the General Inpatient Population *Ivy Nguyen, John Betjemann, Carlos Santos, Vanja Douglas, S. Josephson*

**P04.012** Are Ictal DC Shifts and High Frequency Oscillation Complementary? A Study by Subdural Electrodes in Partial Epilepsy *Kyoko Kanazawa, Riki Matsumoto, Hisaji Imamura, Masao Matsuhashi, Takeharu Kunieda, Nobuhiro Mikuni, Susumu Miyamoto, Ryosuke Takahashi, Akio Ikeda*

**P04.013** Direct Current (DC) Shifts and High Frequency Oscillations in Mesial Temporal Lobe Epilepsy Patients *Shasha Wu, Hans Luders*

**P04.014** Analysis of Generalized Interictal Discharges Using Dipole Source Imaging *Aline Silva, Winnie Blasque, Breno Pereira, Ronaldo Fonseca, Luiz Betting*

**P04.015** Quantitative EEG Analysis of Terminating Slow Waves in Spike and Wave Activity in Untreated, Non-Absence, Primary Generalized Epilepsy *Zianka Fallil, Steven Pacia*

**P04.016** A Novel Method for Automatic Detection and Visualization of Non-Convulsive Seizures in ICU *Antti Tanner, Mika Sarkela, Antti Tolonen, Loretta Norton, Corrine Davies-Schinkel, Michael Sharpe, G. Bryan Young*

**P04.017** Identifying Reasons for Readmission from the Epilepsy Monitoring Unit Compared to a General Neurology Hospital Service *Jocelyn Bautista*

**P04.018** Combination of Ictal EEG and Seizure Semiology Provides 24-Hour Seizure Susceptibility Profile *Sriram Ramgopal, Tobias Loddenkemper, Martina Vendrame, Aneri Shah, Marcin Zarowski, Andreas Alexopoulos, Elaine Wyllie, Sanjeev Kothare*

**P04.019** Diurnal and Sleep/Wake Patterns of Evolutions to Tonic-Clonic Seizures in Pediatric Epilepsy *Sriram Ramgopal, Aneri Shah, Martina Vendrame, Marcin Zarowski, Andreas Alexopoulos, Elaine Wyllie, Sanjeev Kothare, Tobias Loddenkemper*

**P04.020** Reflex Eating Induced Seizures (REIS) with a Genetic Twist *Kiran Patil, Venkat Ramani*

## Clinical Neurophysiology

**P04.021** Quantitative Analysis of EEG in Patients with Acute Encephalopathies *Bruno Assis, Jamil Ribeiro, Aline Silva, Breno Pereira, Ronaldo Fonseca, Luiz Betting*

**P04.022** Cortical Activation to Action Observation and Motor Imagery Corresponds to Motor Learning: An EEG Study *Letizia Leocani, Fabrizio Natali, Javier Gonzalez Rosa, Svetla Velikova, Andrea Tettamanti, Giancarlo Comi, Roberto Gatti*

**P04.023** Isolated Loss of Focal Motor Evoked Potentials during Intracranial Aneurysm Clipping as an Early Predictor of Reversible Ischemia: Case Report *Leslie Lee, Gary Steinberg, Eric Jones, Jaime López*

**P04.024** Monocenter Clinical and Neurophysiological Study of 231 Patients with Peroneal Neuropathy *Dimitri Psimaras, Timothee Lenglet, Thierry Maisonobe, Karine Viala, Emmanuel Fournier, Pierre Bouche*

**P04.025** Sleep Spindle Frequency Modulation (Chirp) in Obstructive Sleep Apnea *Diego Carvalho, Suzana Schönwald, Guilherme Dellagustin, Emerson de Santa-Helena, Ney Lemke, Gunther Gerhardt*

**P04.026** Motor Sequence Learning Via the Mirror Neuron System *Aviva Ellenstein, Anke Karabanov, Sunbin Song, Lauren Sigman, Valeria Martinez, Mark Hallett*

**P04.027** EEG Patterns and Clinical Outcomes of Patients during Hypothermia for Cardiac Arrest in a Large Community Hospital *Jennifer Jones, Sarah Solaka, Reid Taylor, Alex Schneider*

## Poster Session IV

**P04.028** A Novel P300 Evoked Potential Is Elicited by Proprioceptive Stimuli *Lev Vaisman, Peter Bergethon*

**P04.029** Behavioral Measures and EEG Monitoring Using the Brain Symmetry Index during the Wada-Test in Children *Meritxell Tomas-Fernandez, Tobias Loddenkemper, Michel Van Putten, Jurriaan Peters*

**P04.030** Ictal or Not? Pitfalls of Resting Tremor and Deep Brain Stimulation Artifacts on EEG *Jingtian Wang, Cyrus Mody, Jeffrey Chung, Evgeny Tsimerinov, Thomas Lombardi, Dawn Eliashiv*

### Movement Disorders: Restless Legs Syndrome and Tardive Dyskinesia

**P04.031** Reversibility of Tardive Syndromes *Deepti Zutshi, Leslie Cloud, Stewart Factor*

**P04.032** Rotigotine Improves Core Symptoms and Symptom Impact in Patients with Restless Legs Syndrome/Willis-Ekbom Disease: A Post Hoc Analysis of IRLS Single Item Data from a 6-Month Placebo-Controlled US Study *Richard Allen, David Rye, Elisabeth Dohin, Frank Grieger, Kimberly Moran, Ralf Kohnen*

**P04.033** Are Patients with Psychogenic Movement Disorders More Likely To Be Healthcare Workers? *Christina Perry, Katherine Holmes, Karen Anderson, Ann Gruber-Baldini, Paul Fishman, Lisa Shulman, William Weiner, Stephen Reich*

**P04.034** Exome Sequencing of Individuals with Early Onset Familial Restless Legs Syndrome (Willis-Ekbom Disease) *Jacinda Sampson, Lisa Baird, Jeff Stevens, Norisada Matsunami, Mark Leppert*

**P04.035** Clinical and Demographic Correlates of Antidepressant Utilization in Parkinson's Disease Population *Arash Salardini, Ramon Rodriguez, Irene Malaty, Michael Okun, Hubert Fernandez*

**P04.036** Painful and Painless Legs Moving Toes Syndrome: A Polysomnographic and Polymyographic Study *Liudmila Lysenko, Sushanth Bhat, Phillip Hanna, Fouzia Siddiqui, Sudhansu Chokroverty*

**P04.037** Effects of 24-h Transdermal Delivery of Rotigotine on the Core Symptoms and Symptom Impact of Restless Legs Syndrome/Willis-Ekbom Disease: A Post Hoc Analysis of IRLS Single Item Data from a 6-Month Placebo-Controlled European Study *Diego Garcia-Borreguero, Ralf Kohnen, David Rye, Elisabeth Dohin, Frank Grieger, Kimberly Moran, Richard Allen*

**P04.038** Baseline IRLS Rating Scale Scores, Pain Associated with RLS Symptoms and 24-Hour RLS Symptoms in a US Clinical Trial Population *Diego Garcia-Borreguero, Richard Allen, Daniel Bonzo, Marie-Liesse Lassauzet, Ahmad Al-Sabbagh*

**P04.039** Gluteal Myokymia, a Proximal Counterpart of Painless Legs, Moving Toes *Anna Sorokin, Daniel DiCapua, Shivam Mittal, Bahman Jabbari*

**P04.040** Spinocerebellar Ataxia-10 with Paranoid Schizophrenia: A Novel Association *Parampreet Singh, Shrikant Mishra*

### Movement Disorders: Essential Tremor and Tremor Syndromes

**P04.041** Prevalence of Essential Tremor in the Arosa Island (Spain): A Community-Based Door-to-Door Survey *Manuel Seijo-Martinez, Maria Castro del Rio, Jose Ramon Rodriguez Alvarez, Ramon Suarez Prado, Eugenio Torres Salgado, Javier Paz Esquete, M. J. Sobrido-Gómez*

**P04.042** High Width Variability during Spiral Drawing: Further Evidence of Cerebellar Dysfunction in Essential Tremor *Christopher Hess, Elan Louis, Arthur Gillman, Sarah Boschung, Qiping Yu, Seth Pullman*

**P04.043** Increased Number of Purkinje Cell Dendritic Swellings: Evidence of Another Structural Abnormality in Essential Tremor *Elan Louis, Mia Yu, Karen Ma, Phyllis Faust, Lawrence Honig, Ety Cortes, Jean-Paul Vonsattel*

**P04.044** Personality Profile in Essential Tremor: A Case-Control Study *Mary Ann Thenganatt, Elan Louis*

**P04.045** Adult-Onset Opsoclonus-Myoclonus Syndrome *James Klaas, Rajeev Kumar, J. Ahlskog, Joseph Matsumoto, Sean Pittcock, Vanda Lennon, J. D. Bartleson, Kathleen McEvoy, Allen Aksamit, Andrew McKeon*

**P04.046** Increased Prevalence of Non-Motor Symptoms in Essential Tremor *Annie Lacerte, Sylvain Chouinard, Nicolas Jodoin, Genevieve Bernard, Sabrina Diab, Michel Panisset*

**P04.047** Apathy in Essential Tremor, Dystonia and Parkinson's Disease: A Comparison with Normal Controls *Elan Louis, Edward Huey, Marina Gerbin, Amanda Viner*

**P04.048** Factors Predicting Improvement in Essential Head Tremor Following Deep Brain Stimulation *Mariana Moscovich, Christopher Favilla, Zhongxing Peng Chen, Kelly Foote, Michael Okun*

**P04.049** Analysis of the FUS/TLS Gene in Essential Tremor *Lorraine Clark, Khulkar Mirzozoda, Nancy Memer, Patrick Dion, Guy Rouleau, Elan Louis*

**P04.050** Orthostatic Tremor in Two Siblings *Tuhin Virmani, Elan Louis, Cheryl Waters, Seth Pullman*

### Managing Brain Attack

**P04.051** Transient Ischemic Attack Patients Do Have Magnetic Resonance Imaging Proven Infarcts *Haralabos Zacharatos, Ameer Hassan, Saqib Chaudhry, Adnan Qureshi*

**P04.052** Motor Strength Grade and Collateralization on Admission as Predictors of Outcome after Endovascular Intervention in Acute Stroke *Vishunmurthy Hedna, Christopher Favilla, Akhil Patel, Aunali Khaku, Latha Stead, S. Bidari, A. Gottipati, Michael Waters*

**P04.053** Stroke in Young Adults: 6 Year Experience in Hospital San Jose, Monterrey, Mexico *Francisco Rodriguez Leal, Manuel De La Maza, Luis Espinosa, Hector Martinez, Primo Delgado, Daniel Martinez-Ramirez, Giovana Femat, Leonel Cantu-Martinez*

**P04.054** Evolution of Reperfusion Therapies for Acute Brain and Acute Myocardial Ischemia: A Systematic, Comparative Analysis *Richa Patel, Jeffrey Saver*

**P04.055** Application of Mild Therapeutic Hypothermia on Stroke: A Meta-Analysis *Shaheen Laxhan*

**P04.056** Influence of Obesity on Effectiveness of Intravenous Tissue-Type Plasminogen Activator in Acute Ischemic Stroke *Konrad Schlick, Rema Raman, Thomas Hemmen, Brett Meyer, Dawn Meyer, Karin Ernstrom, Bruce Ovbiagele*

**P04.057** Obese Patients Receiving Intravenous Thrombolysis in Acute Ischemic Stroke Have Lower Rates of Intracerebral Hemorrhage and Mortality *Ganesh Asaithambi, Ameer Hassan, Mikayel Grigoryan, Saqib Chaudhry, Adnan Qureshi*

**P04.058** Stroke Severity May Impact Speed of Diagnosis and Thrombolysis *Deepak Nair, Rachel Wang, Clayton McNeil, Huaping Wang, Jan Jahnell, Abby Tobin, Lauren Schaumberg, Kelsey Wilson, Bethany Stapel, Judith Beck, Robyn Alanis, Arun Talkad, David Wang*

**P04.059** Accuracy of Pre-Hospital Identification of Stroke *Elizabeth Wild, Yongwoo Kim, David Hyman, Alexander Venizelos, Mark Cichon, Michael Schneck*

**P04.060** Thrombolysis in Patients with Hyperdense Artery Signs: A Single Center Experience *Qi Li, Peter Mitchell, Richard Dowling, Bernard Yan, Stephen Davis*

### Toward Better Prevention and Outcomes in Stroke

**P04.061** A New Point Mutation of NOTH3 Gene as Cause of CADASIL in a Spanish Family *Alejandro Ponz De Tienda, Ana Piera Blabastre, Francisco Gascon, Javier Garcia Planells, Carlos Monteagudo, Miguel Lainez*

**P04.062** Is Primary Open-Angle Glaucoma a Risk Factor for Stroke? *Chiara Zavanone, Kosta Vassilev, Umberto Serra, Sophie Dupont*

**P04.063** The Beautyshop Stroke Education Project: The Physician's Office Is an Accurate Source for Stroke Knowledge among African-American Women *Nina Natarajan, Jane Khoury, Charles Moomaw, Rosie Miller, Sharon Sailor-Smith, Michael Frankel, Dawn Kleindorfer*

**P04.064** Brooklyn AWAreness of stRoKE in HyperTension (B-AWARE-HT) *Kessarini Panichpaisal, Yogesh Moradiya, Benedict Tan, Susan Law, Suda Jirasakuldej, Christopher Becker, Hasan Memon, Pranav Ghody, Tania Diaz, Edwin Rosas, Ariel Antezana, Priyank Khandelwal, Muddasir Qureshi, Kimberly Peters, Catherine Ding, Magdalena Kotseva, Shereen McIntyre, Volodymyr Vulkanov, Johanne Personna-Policard, Alison Baird*

**P04.065** The Hydration Influence on the Risk of Ischemic Stroke Outcome (THIRST-O) Study *Mohammad Moussavi, Gustavo Rodriguez, David Turkel-Parella, Usama Siddique, Cecilia Carlowicz, David Botros, Mohammad Ibrahim, Martin Gizzi, Jawad Kirmani*

**P04.066** Implementation of Results from Major Clinical Trials Utilization Patterns of Antithrombotic Agents Following Noncardioembolic Ischemic Stroke or TIA in the United States (2000-2009) *Amir Khan, Saqib Chaudhry, Muhammad Suri, Adnan Qureshi*

**P04.067** Wake-Up Stroke and Transient Ischemic Attack: Association with New Onset Atrial Fibrillation *Patricia Riccio, Francisco Klein, Francisco Muñoz Giacomelli, Juan Racosta, Fatima Pagani-Cassara, Maria Gonzalez Toledo, Agustín Jauregui, Luciano Sposato*

**P04.068** Knowledge of Stroke Risk Factors among Patients with Hypertension and Diabetes Attending the Outpatient Clinics of a Nigerian Tertiary Hospital *Kolawole Wahab, Bode Kayode, Omotosho Musa*

**P04.069** Prevalence of Hypertension among Post Stroke Patients in Africa: A Case-Control Study *Martin Kaddumukasa, Larry Goldstein, Pamela Duncan, Edward Ddumba*



## Poster Session IV

**Subarachnoid and Intracerebral Hemorrhage**

**P04.070** Untreated Hypertension and Risk of Intracerebral Hemorrhage *Tenbit Emiru, Xianghu Luo, Eduardo Paredes-Anrade, Ruth Thomson, Afshin Divani*

**P04.071** Factors and Outcomes Associated with Early and Delayed Aneurysm Treatment in Subarachnoid Hemorrhage Patients in United States *Saqib Chaudhry, Farhan Siddiq, Ramachandra Tummala, Muhammad Suri, Adnan Qureshi*

**P04.072** Packed Red Blood Cell Transfusion Is Associated with Adverse Outcomes in ICH Patients *Tiffany Chang, Amelia Boehme, Aimee Aysenne, Karen Albright, Christopher Burns, T. Beasley, Sheryl Martin-Schild*

**P04.073** Diffuse Punctate White Matter Ischemia in a Watershed Pattern after Aggressive Blood Pressure Reduction for Intracerebral Hemorrhage *Conrad Liang, Wayne Clark*

**P04.074** Utility of MRI after Intracerebral Hemorrhage: Assessment of the Modified Hong Kong Criteria *Shouri Lahiri, Reena Gottesman, Daniel Antonello, Daniel Labovitz*

**P04.075** Utility of Delayed Digital Subtraction Angiography (DSA) in CT Angiography or Immediate DSA Negative Spontaneous Subarachnoid Hemorrhage *Pinakin Jethwa, Vineet Punia, Chirag Gandhi, Charles Prestigiacomo*

**P04.076** Comparison of Different Hematoma Volume Coefficients in Intracerebral Hemorrhage *Ruth Thomson, Xianghua Luo, Eduardo Paredes-Andrade, Afshin Divani*

**P04.077** Disparities in Early Do-Not-Resuscitate Orders after Intracerebral Hemorrhage among Native Hawaiians and Other Pacific Islanders *Kazuma Nakagawa, Megan Vento, Todd Seto, Matthew Koenig, Susan Asai, Cheryl Lee Chang, Claude Hemphill*

**P04.078** Effect of Statins on Intracerebral Hemorrhage and Symptomatic Dissection Recurrence in Patients with Spontaneous and Traumatic Dissections *Muna Irfan, Ameer Hassan, Brent Berry, Nauman Tariq, Saqib Chaudhry, Haralabos Zacharatos, Wondwossen Tekle, Gustavo Rodriguez, M. Fareed Suri, Adnan Qureshi*

**P04.079** Factors Associated with Individual Variations in Systolic Blood Pressure Responsive to Intravenous Antihypertensive Medication. Results from the Antihypertensive Treatment of Acute Cerebral Hemorrhage (ATACH) Study *ATACH Investigators*

**Muscular Dystrophy**

**P04.080** Clinical Characteristics and Molecular Genetic Analysis in Korean Patients with Distal Myopathy with Rimmed Vacuoles *Jaeun Sim, Hyung Jun Park, Young-chul Choi*

**P04.081** Expression of microRNAs in the Histopathological Stages of LGMD2A (Calpainopathy) *Xiomara Rosales, Vinod Malik, Amita Sneh, Lei Chen, Janaiah Kota, Sarah Lewis, Julie Gastier-Foster, Caroline Astbury, Robert Pyatt, Shalini Reshmi, Louise Rodino-Klapac, Reed Clark, Jerry Mendell, Zarife Sahenk*

**P04.082** Focal Presentations of Facioscapulohumeral Dystrophy *Anhar Hassan, Lyell Jones, Margherita Milone, Neeraj Kumar*

**P04.083** Patient-Reported Disease Burden and Progression in Genetically Confirmed Participants in a National Facioscapulohumeral Muscular Dystrophy Registry *Jeffrey Statland, William Martens, Alrabi Tawil*

**P04.084** Motor and Cognitive Assessment of Infants and Young Boys with Duchenne Muscular Dystrophy; Results from the Muscular Dystrophy Association DMD Clinical Research Center Network *Anne Connolly, Julaine Florence, Mary Craddock, Elizabeth Malkus, Jeanine Schierbecker, Catherine Siener, Charlie Wulf, Pallavi Anand, Linda Lowes, Lindsay Alfano, Laurence Viollet-Callendret, Kevin Flanigan, Jerry Mendell, Craig McDonald, Erica Goude, Linda Johnson, Alina Nicorici, Peter Karachunski, John Day, Joline Dalton, Janey Farber, Karen Buser, Basil Darras, Susan Riley, Elizabeth Schriber, Rebecca Parad, Kate Bushby, Michelle Eagle, MDA DMD Clinical Research Network*

**P04.085** Outcomes Measure Reliability in Non Ambulatory Boys and Men with Duchenne Muscular Dystrophy (DMD): Results from the Muscular Dystrophy Association DMD Clinical Research Network *Julaine Florence, Anne Connolly, J. Philip Miller, Elizabeth Malkus, Jeanine Schierbecker, Catherine Siener, Charlie Wulf, Pallavi Anand, Craig McDonald, Erica Goude, Linda Johnson, Alina Nicorici, John Day, Peter Karachunski, Joline Dalton, Jason Kelecic, Kelley Paulson, Cameron Naughton, Linda Lowes, Lindsay Alfano, Laurence Viollet-Callendret, Kevin Flanigan, Jerry Mendell, Basil Darras, Janet Quigley, Amy Pasternak, Elizabeth Shriber, Rebecca Parad, MDA DMD Clinical Research Network*

**P04.086** Delayed Recognition of Dysphagia and Malnutrition among Teenaged Boys with Duchenne Muscular Dystrophy *Aimee Gasior, Douglas Sproule*

**P04.087** Guidelines and Outcomes; Standardizing Care for Duchenne Muscular Dystrophy *Michele Scully, Valerie Cwik, Bruce Marshall, Emma Ciafaloni, Thomas Getchius, Robert Griggs*

**P04.088** A Phase 2, Randomized, Placebo-Controlled, Multiple Ascending-Dose Study of ACE-031, a Soluble Activin Receptor Type IIB, in Boys with Duchenne Muscular Dystrophy (DMD) *Craig Campbell, Diana Escobar, Jean Mah, Mark Tarnopolsky, Kathy Selby, Hugh McMillan, Yijun Yang, Dawn Wilson, Rachel Barger, Matthew Sherman, Kenneth Attie*

**P04.089** Reducing Skeletal Muscle Fibrosis with AAV-Delivered miR-29 *Eric Meadows, Janaiah Kota, Sarah Lewis, Zarife Sahenk, Reed Clark, Jerry Mendell, Louise Rodino-Klapac*

**Acquired Neuromuscular Disorders**

**P04.090** Prognosis of Statin Myopathy *Ryan Armour, Lan Zhou*

**P04.091** Contralateral Weakness Following Botulinum Toxin for Post-Stroke Spasticity *Anila Thomas, David Simpson*

**P04.092** Effect of Botulinum Toxin on Distant Muscles: A Pilot Comparison Study of Serotype A vs. B Utilizing Single Fiber EMG *Matthew Brock, Scott Heller, John Sladky, Lyell Jones, Sara Schrader, Patrick Grogan*

**P04.093** Clinical and Electrodiagnostic Features of an Outbreak of Foodborne Botulism Due to Home-Brew Alcohol among Prisoners *Lee Chung, Emma Burbank, Pegah Afra, Robert Hoesch, J. Singleton, Holly Leydard, Candise Dolan, A. Smith, Shawn Smith*

**P04.094** Neuropathy, Encephalopathy, Lambert-Eaton Myasthenic Syndrome and Myasthenia Gravis in a Non-Small Cell Neuroendocrine Tumor of the Lung – An Interesting Paraneoplastic Syndrome: Case Report and Review of Literature. (NELM Syndrome) *Venkateswara Neelam, Shi Lim, Niranjan Singh*

**P04.095** Genetic Regulation of Amifampridine Phosphate (Firdapse®) Metabolism Produces Significant Differences in Pharmacokinetics and Side Effects *Peter Haraldsen, Marvin Garovoy*

**P04.096** Factors Determining Response to Pyridostigmine or Steroid Treatment in Myasthenia Gravis *Macarena Cabrera Serrano, Yolanda Morgado, Sonia Benitez, Carmen Paradas Lopez*

**P04.097** Myasthenia Gravis with Malignant Thymoma and Spinal Metastasis *Mona Thakre, Jihad Said Inshasi*

**P04.098** Trends in Outcome and Cost of Hospitalization of Elderly Myasthenia Gravis Patients Treated with Intravenous Immunglobulin from 1992 to 2009 *Ashar Hasan, Hafiz Khan, Zubeda Sheikh, Nizar Souayah*

**Multiple Sclerosis: Cognitive Dysfunction**

**P04.099** Relationships between Plasma Osteopontin Levels and Cognitive Performances in Relapsing Multiple Sclerosis: Effect of Natalizumab Treatment *Pietro Iaffaldano, Maddalena Ruggieri, Rosa Gemma Viterbo, Mariangela Mastrapasqua, Damiano Paolicelli, Guglielmo Lucchese, Maria Trojano*

**P04.100** Parametric Assessment of Information Processing Capacity at Different States of Multiple Sclerosis (MS) *Peter Bublak, Matthias Schwab, Ralf Deppe, Juergen Faiss, Martin Fischer, Frank Hoffmann, Annett Kunkel, Petra Redel, Erhard Stadler, Michael Sailer, Katharina Voigt, Uwe Zettl, Wolfgang Koehler*

**P04.101** Useless Hand Syndrome with Astereognosis in Multiple Sclerosis *Kenji Kamogawa, Hitomi Tomita, Kensho Okamoto, Bungo Okuda*

**P04.102** CXCR3+ Naive T Helper Cell Percentages Correlate with Neuropsychological Test Abnormalities in Patients with MS *Walter Royal, Terry Lee-Wilk, Mitchell Wallin, Christopher Bever, Robert Kane, Heidi Maloni, Joseph Finkelstein, Eunme Cha, Micheline McCarthy, Michael Levin, William Tyor, Joel Culpepper, Lisa Mitchell, Min Zhan*

**P04.103** Time to New Onset Depression in Newly Diagnosed Patients with Multiple Sclerosis Treated – Implications for Practice *Maureen Lage, Cathryn Carroll, MerriKay Oleen-Burkey*

**P04.104** Cognitive Impairment Is Related to Cerebrospinal Fluid Neurofilament Levels in Clinically Isolated Syndrome Suggestive of Multiple Sclerosis. A Functional MRI Study *Carla Tortorella, Raffaella Romano, Maddalena Ruggieri, Vita Drenzo, Mariangela Mastrapasqua, Pietro Iaffaldano, Paolo Taurisano, Leonardo Fazio, Elena Luciannatelli, Teresa Popolizio, Giuseppe Blasi, Alessandro Bertolino, Maria Trojano*

**P04.105** Fatigue Severity Patterns Differ across Geographical Regions and Ethnic Groups in Patients with Clinically Isolated Syndrome and Early Multiple Sclerosis: First Results from the BEGIN Study *Iris Katharina Penner, Eva-Maria Wicklein, Karola Beckmann, Martin Daumer, Maria Hagstromer, Michael Sjostrom, Maria Tintore-Subirana*

**P04.106** Cognitive and Psychiatric Status in Pediatric Multiple Sclerosis (MS) *Deborah Weisbrot, Leigh Charvet, Dana Serafin, Anita Belman, Michelle Seibert, Tiffany Moadel, Lauren Krupp*

## Poster Session IV

**P04.107** Fatigue and Depression Are Seen More Frequently in Children with Pediatric Acquired Demyelinating Disorders (ADS) Than Healthy Controls (HC) *E. Ann Yeh, Bianca Weinstock-Guttman, Audrey Smerbeck, Ralph Benedict, Joy Parrish*

**P04.108** Cognitive Deficits in Pediatric Transverse Myelitis Patients: An Unexpected Finding *Lana Harder, Donna Graves, Alice Ann Spurgin, Benjamin Greenberg*

**P04.109** Detection of Clinically Important Change in Multiple Sclerosis-Related Fatigue and Relationship to Cognitive Performance *Greg Theraer, Dean Wingerchuk*

**P04.110** Influence of Emotional Valence on Verbal Episodic Memory in Multiple Sclerosis *Nathalie Derache, Audrey Mondou, Rachida Makouri, Béatrice Desgranges, Gilles Defer*

**P04.111** Modeling Long-Term Cognitive Decline in Multiple Sclerosis: A Population-Based Cross-Sectional Epidemiological Study *Anat Achiron, Joab Chapman, David Magalashvili, Mark Dolev Dolgopiat, Mor Lavie, Eran Bercovich, Yael Stern, Irena Kishner, Olga Khilkevich, Shay Menascu, Achinoam Socher, Gil Hararai, Michael Gurevich, Yoram Barak*

**P04.112** MINI Mental Multiple Sclerosis Examination (MINIMUS): Neuropsychological Screening for MS Patients *Maria Amato, Benedetta Goretti, Emilio Portaccio, Francesco Patti, Sabina Cilia, Paolo Gallo, Paola Grossi, Rosa Gemma Viterbo, Angelo Ghezzi, Marco Roscio, Flavia Mattioli, Chiara Stampatori, Maria Trojano*

**P04.113** The EDSS and Performance on Tests of Visuoconstruction, Working Memory, and Processing Speed in Multiple Sclerosis *David Tabby, Joel Eppig, Christine Nieves, Ashley Xu, John DeLuca, David Libon*

**P04.114** Reliability and Sensitivity to Cognitive Impairment of a Novel Endpoint for Use in Pharmaceutical Trials in Multiple Sclerosis *John DeLuca, Frederick Foley, Ralph Benedict, Lauren Caruso, David Erlanger, Tanya Kaushik*

**P04.115** Alexythimia and Moral Judgment in Patients with Multiple Sclerosis *Vladimiro Sinay, Facundo Manes, Ezequiel Gleichgerricht*

**P04.116** Natalizumab Use for Neuropsychological Deficits in Relapsing Multiple Sclerosis *Keith Edwards, William Goodman*

**P04.117** Deficit in Facial Emotion Recognition and Interhemispheric Transfer in Relapsing-Remitting Multiple Sclerosis (RRMS) *Bruno Lenne, Jean-Louis Nandrino, Henrique Sequeira, Delphine Leuse, Gauthier Calais, Patrick Hautecoeur*

**P04.118** Glatiramer Acetate Reverses Plasticity and Cognitive Deficits Associated with Acute Inflammation in MS *Francesco Mori, Hajime Kusayanagi, Fabio Buttari, Carolina Gabri Nicoletti, Giorgio Bernardi, Diego Centonze*

### Multiple Sclerosis: Therapeutics and Mechanisms

**P04.119** Subcutaneous Interferon  $\beta$ -1a in Children and Adolescents with Multiple Sclerosis: An International Retrospective Study of 307 Patients *Daniela Pohl, Brenda Banwell, Angelo Ghezzi, Lauren Krupp, Alexey Boyko, Michel Meinel, Sanda Rocak, Margot Stam Moraga, Silvia Tenembaum*

**P04.120** Disease Characteristics, Dosing, and Outcomes of Subcutaneous Interferon  $\beta$ -1a Treatment Differ between Children and Adolescents with Multiple Sclerosis *Lauren Krupp, Daniela Pohl, Brenda Banwell, Silvia Tenembaum, Alexey Boyko, Michel Meinel, Sanda Rocak, Angelo Ghezzi*

**P04.121** Immune Tolerance Induction with High-Dose Intravenous Interferon-beta in Multiple Sclerosis Patients with Neutralizing Antibodies – A Pilot Study *Harald Hegen, Michael Guger, Andrea Harrer, Martina Hoelzl, Jorg Kraus, Alena Skrobal, Franz Schautzer, Susanne Schmidegg, Florian Deisenhammer*

**P04.122** Phase 1 Studies of the Safety, Pharmacokinetics and Pharmacodynamics of Subcutaneous PEGylated Interferon-Beta in Healthy Volunteers *Kenneth Grabstein, Natalie Naim, Andrea Wang, Tom Graddis, William Jusko, Daniel Burge*

**P04.123** The Effects of Dalfampridine on Walking Speed, Endurance, and Community Participation in a Veteran Population: A Retrospective Cohort Study *Shannon Overs, Mary Fitzpatrick, John Dryden, Ruth Whitham, Michelle Cameron*

**P04.124** Glatiramer Acetate Complements Anti-CD20-Mediated B-Cell Depletion in Treatment of CNS Autoimmune Disease *Deetje Hertenberg, Klaus Lehmann-Horn, Patrice LaLive, Claude Bernard, Scott Zamvil, Bernhard Hemmer, Martin Weber*

**P04.125** Differential Effects of Natalizumab and Fingolimod on the Innate Immune System of MS Patients *Katja Thomas, Tony Sehr, Undine Hainke, Thorsten Schultheiss, Tjalf Ziemssen*

**P04.126** Methodology of EARLIMS Study: A Multi-Center, Open-Label, Non-Randomized, Parallel Group Clinical Trial To Assess the Efficacy of Fingolimod in Treatment-naïve Patients Versus Fingolimod in Patients Previously Treated with Interferons or Glatiramer Acetate, Based on the Presence of Relapses in Patients with Relapsing-Remitting Multiple Sclerosis *Xavier Montalban, Oscar Fernandez, Ana Luisa Gobartt*

**P04.127** Long-Term Results of Glatiramer Acetate Therapy in Every-Day Practice: 10 Years of Experience at the Moscow MS Center *Alexey Boyko*

**P04.128** Final Data from Open-Label Extension Studies of Dalfampridine Extended Release Tablets in Multiple Sclerosis *Andrew Goodman, Andrew Blight, on behalf of the MS-F203, MS-F204, and Extension Study Investigators*

### Multiple Sclerosis: Therapeutics Safety

**P04.129** Clinical Outcomes and Cause of Death for Interferon Beta-1b Versus Placebo, 21 Years Following Randomization *Anthony Reder, Douglas Goodin, George Ebers, Gary Cutter, Marcelo Kremenchutzky, Joel Oger, Dawn Langdon, Mark Rametta, Karola Beckmann, Volker Knappertz*

**P04.130** Early Tolerability and Safety of Fingolimod in Clinical Practice *Daniel Ontaneda, Claire Hara-Cleaver, Richard Rudick, Jeffrey Cohen, Robert Bermel*

**P04.131** Study Design and First Results of a Non-Interventional Registry Study To Establish Long-Term Safety and Pharmacoeconomic Data on Fingolimod (Gilenya®) in Multiple Sclerosis Patients in Germany (PANGAEA) *Tjalf Ziemssen, Tom van Lokven, Raimar Kempke, Matthias Meergans*

**P04.132** Pooled Analyses from the ALLEGRO and BRAVO Trials on the Safety and Tolerability of Laquinimod as a Multiple Sclerosis Treatment *Giancarlo Comi, Timothy Vollmer, Per Solberg Sorensen, Douglas Arnold, Massimo Filippi, Olena Statinova, Tetyana Kobys, Elke Becker, Douglas Jeffery, Xavier Montalban, Ludwig Kappos, Alexey Boyko, Krzysztof Selmaj, Frauke Zipp, Eva Havrdova, Jeffrey Cohen*

**P04.133** IRIS in a Multiple Sclerosis Patient after Discontinuation of Natalizumab and Newly Started on Fingolimod *Erica Tomas, Anastacia Wall, Amer Malik, Lily Jung-Henson*

**P04.134** Long-Term Safety and Efficacy and Association between Baseline Treatment History and Postbaseline Relapses in Multiple Sclerosis Patients Treated with Natalizumab in the TYSABRI® Observational Program (TOP) *Ludwig Kappos, Shibeshih Belachew, Helmut Butzkueven, Fabio Pellegrini, Maria Trojano, Heinz Wiendl, Annie Zhang, Christophe Hotermans*

**P04.135** Hyper eosinophilia in Patients with Multiple Sclerosis Treated with Natalizumab *Patrice LaLive, Mohamed Abbas, Michel Chofflon, Hans-Uwe Simon, Carlo Chizzolini, Camillo Ribi*

**P04.136** Safety, Tolerability, and Pharmacokinetics of BG-12 Administered with and without Aspirin: Key Findings from a Randomized, Double-Blind, Placebo-Controlled Trial in Healthy Volunteers *Sarah Sheikh, Ivan Nestorov, Heidy Russell, John O'Gorman, Ron Huang, Ginger Milne, Scott Stecher, Mark Novas, Katherine Dawson*

**P04.137** Assessment of Potential Risk of PML with Fingolimod in MS Treated for at Least 24 Months *Gordon Francis, Frank Dahlke, Philipp Von Rosenstiel, Nicolaos Sfikas*

**P04.138** Cardiovascular Effects and Safety of Fingolimod in Clinical Practice *Robert Bermel, Daniel Ontaneda, Claire Hara-Cleaver, Richard Rudick, Jeffrey Cohen*

### Multiple Sclerosis: Therapeutics

**P04.139** Use of Long-Term Intrathecal Methotrexate in Progressive Forms of MS *James Stark, Deirdre Dulak, Saud Sadiq*

**P04.140** Treatment of Neurological Autoimmune Disorders with Rituximab – A 7 Years Single Center Experience *Til Menge, Gerd Meyer zu Hürste, Sebastian Jander, Marius Ringelstein, Orhan Aktas, Bernd Kieseier, Hans Hartung*

**P04.141** Treatment of Neuromyelitis Optica with Intravenous Immunoglobulin: Report of 8 Patients *Denis Bichuetti, Fernanda Boulos, Jullyanna Shinosaki, Nilton Souza, Enedina Oliveira, Alberto Gabbai*

**P04.142** Laquinimod Add on Effect on Glatiramer Acetate as Well as INF $\beta$  Treatments *Liat Hayardeny Nisimov, Tal Birnberg, Emanuel Raymond, Tania Fine, Joel Kaye*

**P04.143** Effect of Repeated Doses of Teriflunomide on a Single Oral Dose of Bupropion in Healthy Male Subjects *Sandrine Turpault, Michael King, Pascale Lewanczyk, Kevin Rockich, Francoise Menguy-Vacheron*

## Poster Session IV

**P04.144** Mycophenolate Mofetil as a Monotherapy in Multiple Sclerosis: A Multicenter Retrospective Study on 362 Patients *Laure Michel, Sandra Vukusic, Jerome De Seze, Francois Ducray, Jean-Claude Ongagna, Christian Confavreux, David Laplaud, Sandrine Wiertlewski*

**P04.145** Efficacy of Rituximab in Patients with Secondary Progressive Multiple Sclerosis, Primary Progressive Multiple Sclerosis and Neuromyelitis Optica with Individual Treatment Cycles According to Peripheral B-Cell Return *Sarah Bernsen, Susanne Sorgalla, Kathrin Gerbershagen, Volker Limmroth*

**P04.146** A Large Tertiary Care Multiple Sclerosis Center Experience with Oral Fingolimod (FTY 720) *Ardith Courtney, Yolanda Rodriguez, Thomas Abraham, Amy Conger, Darrell Conger, Benjamin Greenberg, Gina Remington, Elliot Frohman*

**P04.147** Monthly Pulse Adrenocorticotropic Hormone (ACTH) or Methylprednisolone Therapy for Long-Term Treatment of Multiple Sclerosis as an Add-On Therapy to beta-Interferons: Current Status of the Pilot Study *Regina Berkovich, Lilyana Amezcua, Maura Fernandez, Dawood Subhani, Ilona Kravtsova*

**P04.148** Plasma Exchange for Acute and Severe Forms of Central Nervous System Demyelinating Diseases *Lluís Ramió-Torrentà, René Robles-Cedeño, Ana Quiles, Nàdia Martín, Martí Vallès*

#### Anterior Horn: Therapeutics

**P04.149** Dexpropimexole Effects on Functional Decline in ALS Patients in a Phase II Study: Subgroup Analysis of Demographic and Clinical Characteristics *Stacy Rudnicki, James Berry, Evan Ingersoll, Donald Archibald, Merit Cudkovic, Douglas Kerr, Yingwen Dong*

**P04.150** Human Dopamine Receptor Affinity and Potency In Vitro and Dose Tolerability in Beagle Dogs In Vivo of Dexpropimexole and Pramipexole *Valentin Gribkoff, Damon Demady, Evan Ingersoll, Michael Bozick, Stephen Frantz*

**P04.151** Double-Blind Placebo-Controlled Trial on the Use of Acetyl-L-Carnitine for the Treatment of Amyotrophic Lateral Sclerosis *Ettore Beghi, Italian ALS Study Group (\*)*

**P04.152** Effect of Vitamin D Supplementation on ALSFRS in Patients with ALS *Chafic Karam, Matthew Barrett, Nabil Altememi, Theresa Imperato, Daniel MacGowan, Stephen Scelsa*

**P04.153** A Pilot Trial of Zinc in Patients with ALS *Todd Levine, Nicole Hank, David Saperstein, Walter Bradley, Paul Cox*

**P04.154** Bulbar Motor Deterioration in ALS *Jordan Green, Yana Yunusova, Gary Pattee, Lorne Zinman, Mili Kuruvilla, Jun Wang, Michelle Falikowski*

**P04.155** A Study To Evaluate Safety and Tolerability of CK-2017357 (CK-357) in Patients with Amyotrophic Lateral Sclerosis Using a Twice-Daily, Dose-Titration Regimen *Jeremy Shefner, Jinsy Andrews, Richard Bedlack, James Berry, Kimberly Goslin, Carlayne Jackson, John Kissel, Dale Lange, Jonathan Licht, Tahseen Mozaffar, Alan Pestronk, Jeffrey Rosenfeld, Andrew Wolff, Jacqueline Lee, Jean Masonek, Drew Jones, Lisa Meng, Jesse Cedarbaum*

**P04.156** Expression Profile of microRNAs miR-9 and miR-206 in Human Amyotrophic Lateral Sclerosis *Danyella Dogini, Anamari Nucci, Iscia Lopes-Cendes, Marcondes Franca*

**P04.157** Longitudinal Diffusion Tensor Imaging of the Motor Network in Amyotrophic Lateral Sclerosis *E. Verstraete, Renee Walhout, Martijn van de Heuvel, Leonard Van den Berg*

**P04.158** Quantitating Cortical Motor Neuron Dysfunction in PLS Using TST *Rahul Remanan, Janki Panchal, Mona Shahbazi, Mary Sedarous, Dale Lange*

#### Neurologic Manifestations of Systemic Disease: Therapeutics

**P04.159** Metronidazole Toxicity: A Case Series *Laura Reaven, Richard Reaven, Theresa Kouo, Robert Shin*

**P04.160** Effect of a Once-Daily Gastroretentive Formulation of Gabapentin on the Neuropathic Pain Scale Score in Patients with Postherpetic Neuralgia *Misha-Miroslav Backonja, Mark Wallace, Roy Freeman, Michael Sweeney*

**P04.161** Integrated Analysis of Efficacy and Safety of a Once-Daily Gastroretentive Formulation of Gabapentin in Patients with Postherpetic Neuralgia *Richard Rauck, Gordon Irving, Mark Wallace, Geertrui Vanhove, Michael Sweeney*

**P04.162** Treatment for Stroke-Like Episodes in MEALS by Edaravone *Hisatomo Kowa, Tohko Miyawaki, Kenji Sekiguchi, Fumio Kanda, Tatsushi Toda*

**P04.163** Pachymeningeal Involvement in POEMS Syndrome: Dramatic Cerebral MRI Improvement after Lenalidomide Therapy *Chiara Briani, Renzo Manara, Federica Lessi, Renato Zambello, Fausto Adami*

**P04.164** Rituximab Therapy in a Patient with Recurrent Hashimoto's Encephalitis (HE), and Progressive Encephalomyelitis with Rigidity and Myoclonus (PERM) *Darine Kassar, Srikanth Damodaram, Stanley Iyadurai, Pratap Chand*

**P04.165** Stiff Person Syndrome Improvement with Chemotherapy in a Patient with Cutaneous T Cell Lymphoma *Goran Rakocevic, Aamir Hussain*

**P04.166** Rapamycin: Advantages of Immunosuppressive Therapy with Less Neurotoxicity *Marisol Ferrúa, Agustín Jáuregui, Francisco Muñoz Giacomelli, María González Toledo, Analia Calle, Noelia Pontello*

**P04.167** Posterior Reversible Encephalopathy Syndrome (PRES) after Gemcitabine Treatment in the Context of Acute Kidney Failure *Victor Ferastraou, Shouri Lahiri, Jerome Graber, Dennis Kuo, Matthew Robbins*

**P04.168** Neurotoxicity and Tacrolimus: Relationship with Serum Levels and Magnesium *Noelia Pontello, María González Toledo, Agustín Jauregui, Francisco Muñoz Giacomelli, Analia Calle*

**P04.169** The Use of Opioids in Patients with Postherpetic Neuralgia (PHN) Treated with Gabapentin *Phaedra Johnson, Rachel Halpern, Laura Becker, Michael Sweeney, Robert Dworkin*

#### Child Neurology: Therapeutics

**P04.170** Children with Common Neurological Conditions Use Complementary and Alternative Medicine Twice as Frequently as Those Without *Lauren Jansons, Katherine James, Jeanette Ziegenfuss, Jon Tilburt*

**P04.171** Efficacy of Amitriptyline as a Prophylactic Agent for Headaches in Pediatric Population *Shi Lim, Venkateswara Neelam, Nitin Patel, Mahesh Thakkar, Pradeep Bollu*

**P04.172** The Spectrum of Diagnosis and Management of Headaches in Pediatric Emergency Department *Shubhangi Peche, Jason Lenox, Sara Isbell, Sushant Kale, Soe Mar, Arthur Prensky*

**P04.173** Single-Center Phase I/II Trial of Sodium Oxybate in Patients with Alternating Hemiplegia of Childhood *Aga Lewelt, Matthew Sweney, Sandra Reyna, Kenneth Silver, Brian Katchan, Mortimer Mamelak, Kathryn Swoboda*

**P04.174** A Review of Children with Electrical Status Epilepticus in Slow Wave Sleep (ESES) *Amy Martyanov, Elaine Wirrell, Katherine Nickels*

**P04.175** Antiepileptic Drug Treatment Following Status Epilepticus Secondary to Posterior Reversible Encephalopathy Syndrome in the Pediatric Population *Jennifer Avallone, Kiran Maski*

**P04.176** Evaluation of Myasthenia Gravis Patients, Pre and Post Thymectomy, Therapeutics and Course *Erin Neil, Huiyuan Jiang, Lalitha Sivaswamy*

**P04.177** Trends in Outcome and Cost of Hospitalization of Pediatric Myasthenia Gravis Patients Treated with Intravenous Immunglobulin from 1992 to 2009 *Wael Abukwaik, Hafiz Khan, Zubeda Sheikh, Andrew Ji, Shahana Islam, Tarang Kheradia, Anshul Saxena, Nizar Souayah*

**P04.178** Multiple Applications of L-DOPA Therapy in Children with Neurological Disorders – 25 Year Review *Bennett Lavenstein, Jonathan Hecht*

**P04.179** Risperidone Use in Pre-School Children (<5 Years) with Autism Spectrum Disorder (ASD) *Indu Sivaraman, Stefan Hagmann, Richard Neugebauer, Ram Kairam*

#### Neuro-Oncology: Therapeutics

**P04.180** Phase I Trial of Vandetanib Plus Sirolimus in Adults with Recurrent Glioblastoma *Milan Chheda, Patrick Wen, Fred Hochberg, Andrew Chi, Jan Drappatz, Daniel Yang, April Eichler, Rameen Beroukham, Andrew Norden, Elizabeth Gerstner, Tracy Batchelor*

**P04.181** Treatment of Malignant Gliomas Using Thermally Targeted Peptide Therapeutics *Gene Bidwell, III, Eddie Perkins, Joshua Hughes, Majid Khan, Judy James, Drazen Raucher*

**P04.182** Carboplatin and Bevacizumab for Recurrent High Grade Glioma *Maciej Mrugala, Laura Lee, Carrie Graham, James Fink, Alexander Spence*

**P04.183** Treatment of Unresectable Adult Pilocytic Astrocytoma with Bevacizumab with or without Temozolomide *Richard Green, Emily Woyshner, Jennifer Quan, Timothy Cloughesy*

**P04.184** Predicting Failure To Taper Steroids in Newly Diagnosed Glioblastoma *Mariel Deutsch, Katherine Panageas, Andrew Lassman, Lisa DeAngelis*

**P04.185** Seizure Prophylaxis in Patients with De Novo Glioblastoma: Should AAN Guidelines Be Revisited? *Thomas Wychowski, Liana Buniak, Jennifer Serventi, John Henry, Nimish Mohile*

**P04.186** Treatment of Primary CNS Lymphoma (PCNSL) Following Successful Treatment of Systemic Non-Hodgkins Lymphoma (NHL) *Marc Chamberlain*

**P04.187** Neurolymphomatosis: A Case Series of Clinical Manifestations, Treatments, and Outcomes *Kasey Gildersleeve, Bahram Homzodi, Carlos Kamiya-Matsuoka, Karin Woodman*

## Poster Session IV

**P04.188** Everolimus for the Treatment of Angiomyolipoma in Patients with Tuberous Sclerosis Complex or Sporadic Lymphangioleiomyomatosis: Results from EXIST-2 *Michael Frost, Klemens Budde, J. Kingswood, Bernard Zonnenberg, Elena Belousova, Elzbieta Radzikowska, Matthias Sauter, Norio Nonomura, Susanne Brakemeier, Petrus de Vries, Tarek Sahmoud, Gaurav Shah, Sara Miao, Diep Gray, John Bissler*

### Aging and Dementia: Therapeutics

**P04.189** Cholinergic Deficit and Response to Donepezil Therapy in Parkinson's Disease with Dementia: [5-11C-Methoxy]donepezil-PET Study *Kotaro Hiraoka, Nobuyuki Okamura, Yoshihito Funaki, Akiko Hayashi, Manabu Tashiro, Kinya Hisanaga, Toshikatsu Fujii, Atsushi Takeda, Kazuhiko Yanai, Ren Iwata, Etsuro Mori*

**P04.190** Functional Imaging and Neurocognitive Correlates of Targeted High Frequency Repetitive Transcranial Magnetic Stimulation in Patients with Alzheimer's Disease *Gayatri Devi, Dani Levine, Henning Voss, Michael de Boisblanc, Linda Heier, James Halper*

**P04.191** Development of Carvedilol Analogs with Anti-Oligomerization Activity for Treating AD *Giulio Pasinetti, Kenjiro Ono, Jun Wang*

**P04.192** Safety, Tolerability, and Efficacy of Armodafinil Therapy for Hypersomnia Associated with Dementia with Lewy Bodies *Karen Kuntz, Bradley Boeve, Dina Drubach, Laura Allen, Daniel Drubach*

**P04.193** Managing Functional and Cognitive Decline in Patients with Mild-to-Moderate Alzheimer's Disease: A 48-Week, Randomized, Double-Blind Evaluation of 13.3 mg/24 h (15 cm<sup>2</sup>) Versus 9.5 mg/24 h (10 cm<sup>2</sup>) Rivastigmine Patch *Jeffrey Cummings, Lutz Frölich, Sandra Black, Serge Bakchine, Giuseppe Bellelli, José Molinuevo, Reto Kressig, Pamela Downs, Angelika Caputo, Christine Strohmaier*

**P04.194** Responders to ELND005 (Scyllo-Inositol) Demonstrate Clinical and Biomarker Characteristics Consistent with Mild Alzheimer's Disease (AD): Data from a 78-Week Phase 2 Study in Mild to Moderate (M/M) AD *Anton Porsteinsson, Reisa Sperling, Stephen Salloway, Gerald Crans, Chito Hernandez, Sawsan (Susan) Abushakra*

**P04.195** Responder Analyses from a 78-Week Phase 2 Placebo-Controlled Study of ELND005 (Scyllo-Inositol) in Mild to Moderate (MM) Alzheimer's Disease (AD) *Stephen Salloway, Reisa Sperling, Anton Porsteinsson, Gerald Crans, Chito Hernandez, Sawsan (Susan) Abushakra*

**P04.196** Isoflavone-Rich Soy Protein and Cognition in Midlife and Late-Life Women: Randomized, Double-Blind, Placebo-Controlled Trial *Victor Henderson, Jan St. John, Howard Hodis, Naoko Kono, Carol McCleary, Adrian Franke, Wendy Mack*

**P04.197** Extended-Release Memantine (28 mg, Once Daily) and Sustained Behavioral Improvement: Post Hoc Responder Analysis from a Randomized Trial in Patients with Moderate to Severe Alzheimer's Disease *Jeffrey Cummings, Suzanne Hendrix, Michael Miller, Vojislav Pejovic, Stephen Graham, Michael Tocco*

**P04.198** An Open-Label Exploratory Study with Memantine: Correlation between Proton Magnetic Resonance Spectroscopy and Cognition in Patients with Mild to Moderate Alzheimer's Disease *Marc Gordon, Peter Kingsley, Terry Goldberg, Jeremy Koppel, Erica Christen, Lynda Keehlisen, Nina Kohn, Peter Davies*

### Aging and Dementia: Vascular Cognitive Impairment

**P04.199** Insulin Resistance in Dementia: A Comparison between Alzheimer's Disease and Frontotemporal Lobar Degeneration *Innocenzo Rainero, Elisa Rubino, Elisa Negro, Alessandro Vacca, Flora Govone, Maria Laura Giobbe, Lorenzo Pinessi*

**P04.200** Validation of the NINDS-CSN 5-Minute Battery for Vascular Cognitive Impairment *Richard Kennedy, Virginia Wadley, Leslie McClure, Frederick Unverzagt, Michael Crowe, Brendan Kelley, David Nyenhuis, Bhumika Kana, Janice Marceaux, Manjula Tamura, Virginia Howard, George Howard*

**P04.201** Impact of Cerebrovascular Risk Factors over Age of Onset of Dementia Due to Alzheimer's Disease in a Sample of Patients with Low Schooling from São Paulo, Brazil *Fabricio De Oliveira, Paulo Bertolucci, Elizabeth Chen, Marília Smith*

**P04.202** The Relationship of Smoking History and Vascular Risk Factors to Motor Parkinsonism in Dementia *Berneet Kaur, Danielle Harvey, Elisa Tong, C. Richard Hofstetter, Charles DeCarli, John Olichney*

**P04.203** Is Antiplatelet Treatment Effective on the Progression of White Matter Hyperintensity? – 5 Year Follow Up, Propensity Score Adjusted, Observational Study *Joung-Ho Rha, Hee-Kwon Park, Jeong-Jin Park, Na-Young Yoo*

**P04.204** Renal Dysfunction Cause Small Vessel Disease and Cortical Thinning in Cognitively Impaired Patients *Eunbin Cho, Sangwon Seo, Uicheul Yoon, Geon Ha Kim, Jisoo Shin, Chi Hun Kim, Jong Min Lee, Duk Na*

### Aging and Dementia: Clinical and Cognitive Studies

**P04.205** The Validity of Self-Reported Functional Decline Varies by Disease Severity *Sarah Farias, Naomi Saito, Danielle Harvey, Paul Aisen, Ronald Petersen*

**P04.206** Trajectories of Behavioral Disturbance in Dementia *Jonathan Fridhandler, Tiffany Chow, Malcolm Binns, Jennifer Merrilees, Howard Rosen, Bruce Miller*

**P04.207** Examining Instability and Reversion in the Diagnosis of Mild Cognitive Impairment *Divya Singhal, Nawaz Hack, Erin Abner, Frederick Schmitt, Peter Nelson, Gregory Jicha*

**P04.208** Reduced Quality of Life Ratings in Mild Cognitive Impairment: Analyses of Subject and Informant Responses *Edmond Teng, Kanida Tassaniyom, Po Lu*

**P04.209** Characterization of Dysexecutive Versus Amnesic Alzheimer's Disease Phenotypes in the National Alzheimer's Coordinating Center (NACC) Database *Jesse Mez, Stephanie Cosentino, Adam Brickman, Edward Huey, Jennifer Manly, Richard Mayeux*

**P04.210** Clip Test\*: A Brief Test of Motor Skills in Aging and Dementia *Yutaka Tanaka, Emmanuel Ojo, Avron Spiro, III, Dalia Cahana-Amitay, Martin Albert*

**P04.211** Caloric Intake, Aging, and Mild Cognitive Impairment: A Population-Based Study *Yonas Geda, Marion Ragossnig, Lewis Roberts, Rosebud Roberts, Vernon Pankratz, Teresa Christianson, Michelle Mielke, Bradley Boeve, Eric Tangalos, Ronald Petersen*

**P04.212** Clinical Characteristics of TGA: Recent Update Analysis *YoungSoon Yang, SangYun Kim*

**P04.213** Is Transient Global Amnesia Hereditary: 4 Families and a Review *Fabien Dupuis, Frederic Evrad, Philippe Jacquerey, Gaetane Picard, Caroline Goossens, Olivia Ghysens, Michel Dupuis*

**P04.214** Instrumental Activities of Daily Living Impairment Is Associated with Temporal and Parietal Hypometabolism in Mild Cognitive Impairment *Gad Marshall, Natacha Lorus, Christopher Gidicsin, Jacqueline Maye, J. Alex Becker, Rebecca Amariglio, Dorene Rentz, Reisa Sperling, Keith Johnson*

### Behavioral Neurology: Dementia and Cognition

**P04.215** The Effects of ELND005 (Scyllo-Inositol) on Emergence of Neuropsychiatric Symptoms (NPS) in Mild/Moderate Alzheimer's Disease: Results from a 78-Week Phase 2 Study *Pierre Tariot, Constantine Lyketsos, Gerald Crans, Jesse Cedarbaum, Chito Hernandez, Sawsan (Susan) Abushakra*

**P04.216** Functional Network Connectivity in the Behavioral Variant of Frontotemporal Dementia *Federica Agosta, Elisa Scola, Elisa Canu, Giuseppe Magnani, Alessandra Marcone, Paola Valsasina, Francesca Caso, Massimiliano Copetti, Giancarlo Comi, Stefano Cappa, Andrea Falini, Massimo Filippi*

**P04.217** Functional Connectivity during Resting State Functional MR Imaging in the Semantic Variant of Primary Progressive Aphasia *Lidia Sarro, Federica Agosta, Elisa Scola, Elisa Canu, Alessandra Marcone, Giuseppe Magnani, Massimo Franceschi, Giancarlo Comi, Stefano Cappa, Andrea Falini, Massimo Filippi*

**P04.218** Transient Global Amnesia Precipitated by Dobutamine Stress Test *Olímpia Carbanar, Laura Pedelty, Venkatesh Aiyagari, Karan Dixit*

**P04.219** Verb and Noun Comprehension in Frontotemporal Degeneration *Emily Camp, Lisa Burkholder, Ashley Boller, Danielle Weinberg, Jenna Haley, Murray Grossman*

**P04.220** Baseline Purpose Oriented Life and Cognitive Outcomes *Feng Lin, Hillary Topazian, Yonas Geda*

**P04.221** Acute Effects of Alcohol on Human Brain: A Resting-State fMRI Study *Hongyi Zheng, Lingmei Kong, Lanmei Chen, Wenbin Zheng*

### Behavioral Neurology: Dementia

**P04.222** "Reversal of the Concreteness Effect" in the Evolving Artistic Abilities of a Semantic Dementia Patient *Danielle Weinberg, Keerthi Chandrasekaran, Murray Grossman*

**P04.223** Hippocampal CA1 Apical Neuropil Atrophy and Memory Performance in Alzheimer Disease *Geoffrey Kerchner, Gayle Deutsch, Michael Zeineh, Robert Dougherty, Brian Rutt*

**P04.224** Dementia Associated Epileptogenic Abnormalities: Implications for Testing, Treatment and Prognosis *Meredith Wicklund, Jeffrey Britton, Keith Josephs*

**P04.225** Frontotemporal Dementia Behavioral Variant: Which Factors Underlie Caregiver Strain? *Gerhard Ransmayr, Michaela Steffelbauer, Susanne Schmidegg, Walter Struhal*

## Poster Session IV

- P04.226** Neuronal Correlates of Autobiographical Memory: An MRI-Based Volumetry Study in Alzheimer's Disease *Nathalie Philipp, Vincent Noblet, Anne Botzung, Olivier Despres, Felix Renard, Giorgos Sfikas, Benjamin Cretin, Stephane Kremer, Lillianne Manning, Frederic Blanc*
- P04.227** Predicting Alzheimer Disease Versus Corticobasal Degeneration Pathology Underlying the Corticobasal Syndrome *Anhar Hassan, Jennifer Whitwell, Keith Josephs*
- P04.228** Conceptual Apraxia in Alzheimer Disease: Impaired Mechanical Knowledge with Preserved Tool Selection Associative Knowledge *Adam Falchhook, Diana Mosquera, Glen Finney, John Williamson, Kenneth Heilman*
- P04.229** Cognitive Constructs Underlying Complex Figure Copy Test Performance in Patients with Corticobasal Syndrome (CBS) *Jenna Haley, Corey McMillan, Rachel Goldmann Gross, Ashley Boller, Jessica Kitain, Katya Rascovsky, David Libon, Murray Grossman*
- P04.230** The Profile of Dysexecutive Disorders and Syndromes of Alzheimer Disease. Implications for Diagnosis *Olivier Godefroy, Olivier Martinaud, Martine Roussel, Study Group Grefex*
- P04.231** Forced Vital Capacity, Bulbar Onset, and Neuropsychological Impairment in Amyotrophic Lateral Sclerosis (ALS) *Christine Nieves, Joel Eppig, David Libon, Donna Harris, Sara Feldman, Mary Paolone, Luisa Rojas, Anahita Deboo, Terry Heiman-Patterson*
- Headache II**
- P04.232** Migraine and Risk of Depression among Women *Pamela Rist, Julie Buring, Tobias Kurth*
- P04.233** The Safety of Triptan Use for Migraines in the Elderly *Rony Salem, Lie Chen, Sonja Potrebic, Raoul Burchette, Annette Langer-Gould*
- P04.234** Frequency and Impact of Persistent Nausea in Persons with Migraine: Results from the American Migraine Prevalence and Prevention (AMPP) Study *Richard Lipton, Dawn Buse, Kristina Fanning, Michael Reed*
- P04.235** Presence of Post-Concussion Syndrome Symptoms (PCSS) in OEF/OIF Veterans at 1-4 and 5-8 Years after Traumatic Brain Injury in Combat (C-TBI) and the Effect of Prior Non-Combat TBI (NC-TBI) on These Symptoms *James Couch, Kenneth Stewart, Peggy Wisdom*
- P04.236** One-Year Prevalence of Recurrent Headaches among Adult Nigerians with Sickle Cell Disease *Kolawole Wahab, Timothy Olanrewaju, Ademola Aderibigbe*
- P04.237** Increased Prevalence of Migraine in Patients with Celiac Disease and Inflammatory Bowel Disease Compared to Controls: A Multicenter Prospective Study *Alexandra Dimitrova, Ryan Ungaro, Benjamin Lebwohl, Mark Green, Mark Babyatsky, Peter Green*
- P04.238** Claims-Based Analysis of the Impact of Adherence to Oral Migraine Prophylaxis in a Newly Diagnosed Chronic Migraine Population *Lisa Bloudek, Zsolt Hepp, Jenny Chia, Sepideh Varon*
- P04.239** Frequent Nausea in Episodic Migraine (EM) Is Associated with Increased Direct Medical Care and Costs: Results from the American Migraine Prevalence and Prevention (AMPP) Study *Michael Reed, Kristina Fanning, Dawn Buse, Richard Lipton*
- P04.240** Rates of Stressful Life Events in Chronic and Episodic Migraine: Results of the American Migraine Prevalence and Prevention (AMPP) Study *Aubrey Manack, Daniel Serrano, Catherine Turkel, Richard Lipton, Dawn Buse*
- P04.241** Patient Perceptions of Prophylaxis in Chronic and Episodic Migraine *Joanna Sanderson, Emily Devine, Lisa Bloudek, Sepideh Varon, Sean Sullivan*
- P04.242** Analysis of Precursor Endothelial Cells in Chronic Migraine *Agustin Oterino, Maria Toriello, Enrique Palacio, Vicente Quintanilla, Nuria Ruiz-Lavilla, Silvia Montes, Jesus Castillo*
- P04.243** Olfactory Acuity in Chronic Migraine *Alexander Whiting, Michael Marmura*
- P04.244** Arterial Pulsations Are Unrelated to the Throbbing Quality of Acute Pain *Andrew Ahn, Afia Mirza, Jue Mo, Jenny Holt, John Kairalla, Marc Heft, Mingzhou Ding*
- P04.245** Effect of Medications on Pain Perception and Its Central Modulation in Episodic and Chronic Migraine Patients *Nathalie Guy Renouil, Pierre Clavelou, Radhouane Dallel*
- P04.246** Selective Survival and Late-Life Risk Factor Studies *Ann Scher, Gudny Eiriksdottir, Preethy Feit, Albert Smith, Kathryn Roecklein, Larus Gudmundsson, Vilundur Gudnason, Lenore Launer*
- P04.247** Anatomical Differences in the Circle of Willis Are Unlikely To Be Related with Migrainous Aura *Jun Lee, Ho-Sun Lee, Doo-Hyun Kim, Jung-Sang Hah*
- P04.248** Cerebrovascular Reactivity in Idiopathic Intracranial Hypertension Measured by Blood Oxygen Level-Dependent MRI *Benjamin Hui, James Sharpe, Julien Poublanc, Aneta Chmielewski, Jom Fierstra, Daniel Mandell, David Mikulis*
- P04.249** Migraine and Restless Legs Syndrome: Further Investigating the Link *Paola De Martino, Elena Peila, Innocenzo Rainero, Lorenzo Pinessi, Alessandro Cicolini*
- P04.250** A Survey of Lumbar Puncture Complications and Their Risk Factors: The Influence of Height, Intravenous Hydration and Systolic Blood Pressure on Post-Dural Puncture Headache *Yao Feng Victor Chong, Kevin Tan*
- P04.251** Anti-NMDA Receptor Encephalitis Presenting as a Syndrome of Transient Headache and Neurological Deficits with Cerebrospinal Fluid Lymphocytosis (HaNDL) *Juan Garcia-Monco, Marian Gomez Beldarrain, Ines Garcia Gorostiaga, Izaro Kortazar*
- P04.252** The Frequency and Clinical Characteristics of Chronic Headache among Nursing Students in a Nigerian University *Adekunle Mustapha, Olalekan Ogunmokin*
- P04.253** Utility of ID-Migraine as a Screening Tool in the Specialty Care *Mauro Jumo, Pedro Moreira Filho, Alinne Ferreira, Anna Carolina Mattos, Jano Souza, Dilermando Rezende*
- P04.254** The Importance of Stress as a Trigger Factor in Childhood Migraine: An Italian Study *Dacia Dalla Libera, Bruno Colombo, Donatella De Feo, Giancarlo Comi*
- P04.255** Epidemiological Studies Suggest the Link between Sleep Disorders and Nonspecific Headache Including Chronic Headache *Tokihisa Nagai, Katsuhiko Kohara, Yasuharu Tabara, Yoko Okada, Masayuki Ochi, Tomoko Kido, Eri Uetani, Miwako Kido, Michiya Igase, Tetsuro Miki*
- P04.256** Prevalence of Primary Headache Disorders in Patients with Cerebrovascular Accidents (A Study from a University Hospital of North India) *Parvaiz Shah, Ali Imran*
- P04.257** Gender Differences of Migraine: Results of a Nationwide Home Based Study in Turkey *Betul Baykal, Mustafa Ertaş, Elif Orhan, Turkish Prevalence Study Group*
- P04.258** Migraine and Subsequent Risk of Breast Cancer: A Prospective Cohort Study *Anke Winter, Rulla Tamimi, Julie Buring, Tobias Kurth*
- P04.259** Migraine and the Risk of Becoming Overweight and Obese: A Prospective Cohort Study *Anke Winter, Julie Buring, Tobias Kurth*
- P04.260** Chronic Migraine (CM) and Chronic Tension-Type Headache Are Associated with Concomitant Frequent Back Pain *Min-Suk Yoon, Aubrey Manack, Gunther Fritsche, Mark Obermann, Hans-Christopher Diener, Susanne Moebus, Zaza Katsarava*
- P04.261** Frequent Migraines and Obesity in Children and Adolescents *Todd Herman, Corinna Koebnick, Sonja Potrebic, Ning Smith, Annette Langer-Gould*

### Education Program Evaluation Forms— Now Online Only!

In an effort to be conscious of both the environment and your time, all 2012 Annual Meeting Education Program evaluation forms will be handled electronically only—online and at your convenience. Simply log on to [AAN.com](http://AAN.com) after you've attended your applicable course or program to complete the form and receive your CME.

Wednesday, April 25

# Contemporary Clinical Issues Plenary Session

9:00 a.m.–12:00 p.m.



**Moderator: Lisa M. DeAngelis, MD, FAAN**  
**Chair, Science Committee**

Highlights issues most critical to practicing neurologists, including abstracts related to new therapeutic developments, clinical applications of basic and translational research, and innovative technical developments. In addition to the Contemporary Clinical Issues discussion, a case study format addresses topics of interest. Commentary and

discussion follow each presentation.

## **MR Spectroscopy Markers of Disease Progression in Multiple Sclerosis: A Clinical Validation Study**

Sara Llufriu, MD, University of California San Francisco

Discussant: Douglas Arnold, MD, Montreal Neurological Institute, McGill University

## **Analysis of the Behavioral Features Conferred by the Intermediate Allele for Huntington Disease in the Prospective Huntington at Risk Observational Study (PHAROS)**

Annie Killoran, MD, MSc, University of Rochester

Discussant: Jeffery Vance, MD, PhD, University of Miami

## **Clinical Features, Treatment, and Outcome of 500 Patients with Anti-NMDA Receptor Encephalitis**

Maarten Titulaer, MD, PhD, University of Pennsylvania

Discussant: Angela Vincent, MD, PhD, John Radcliffe Hospital

## **Why Isn't Alice in Wonderland and How Can We Help Her Get There? Modifiable Barriers to Enrolment in Neurology Research Studies**

Richard Bedlack, MD, PhD, FAAN, Duke University Medical Center

## **Memory Consolidation in Sleep**

David Foster, MD, Johns Hopkins University

## **Image-Guided Patient Selection for Acute Stroke Therapy**

Maarten Lansberg, MD, PhD, Stanford University

For Full Abstracts and Bios for Plenary Speakers Visit [www.aan.com/view/plenary](http://www.aan.com/view/plenary)



## Neurology's Best and Brightest

### 2012 AAN and AAN Foundation Awards Luncheon

Join AAN leaders for lunch at noon on **Wednesday, April 25**, honoring top accomplishments in the field from enterprising high school students to world-renowned researchers. Seating is limited.

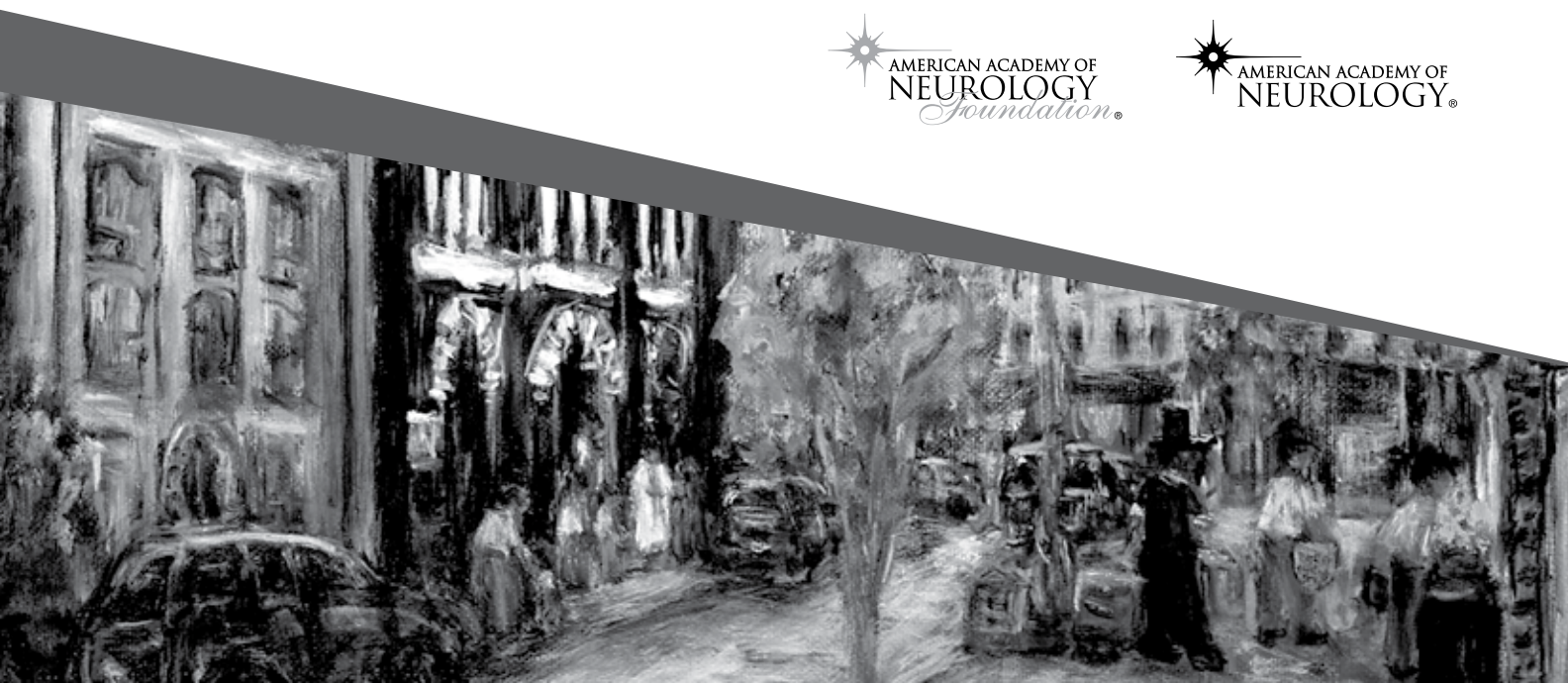
Reserve your group's table now at [www.aan.com/view/awards12](http://www.aan.com/view/awards12).

#### Foundation Awards 2012 Public Leadership In Neurology Award Recipient



*Rich Clifford*  
*Former NASA Astronaut*

A veteran of three Space Shuttle missions with 665 hours in orbit as a Mission Specialist, Clifford served as flight engineer and logged a six-hour spacewalk while the orbiter Atlantis was docked to the Russian Space Station MIR in 1996. Clifford, who was diagnosed with Parkinson's disease in 1994, has received many awards for his achievements in space flight and engineering.



- S21**  
**Multiple Sclerosis: Imaging Advances**
- 2:00 p.m. S21.001**  
Microstructural MR Imaging of Cortical Lesions in Multiple Sclerosis Phenotypes *Elisabetta Pagani, Maria Rocca, Paolo Preziosa, Massimiliano Copetti, Sarlota Mesaros, Bruno Colombo, Mark Horsfield, Andrea Falini, Giancarlo Comi, Hans Lassmann, Massimo Filippi*
- 2:15 p.m. S21.002**  
Diffusion Tensor and Magnetization Transfer Imaging Correlates of Motor Dysfunction in the Spinal Cord in Multiple Sclerosis *Jiwon Oh, Kathleen Zackowski, Min Chen, Scott Newsome, Seth Smith, Jerry Prince, Peter Calabresi, Daniel Reich*
- 2:30 p.m. S21.003**  
Increased Microglial Activation in the Brain of Secondary Progressive Multiple Sclerosis Patients Detected Using [11C] PK11195 PET *Eero Rissanen, Jouni Tuisku, Jere Virta, Teemu Paavilainen, Riitta Parkkola, Juha Rinne, Laura Airas*
- 2:45 p.m. S21.004**  
Decreased Cellular Energetics in Multiple Sclerosis Gray Matter: A 7T Phosphorus Spectroscopy Study *Manoj Sammi, Yosef Berlow, Thomas Barbara, Audrey Selzer, John Grinstead, Edward Kim, Dennis Bourdette, William Rooney*
- 3:00 p.m. S21.005**  
Subcortical Deep Gray Matter SWI-Filtered Phase and Atrophy Are Associated with Disability in MS *Robert Zivadinov, Jesper Hagemeier, Mari Heininen-Brown, Guy Poloni, Niels Bergsland, Claudiu Schirda, Christopher Magnano, Cheryl Kennedy, Ellen Carl, Michael Dwyer, Bianca Weinstock-Guttman*
- 3:15 p.m. S21.006**  
MR Molecular Imaging of VCAM-1 in EAE: A New Perspective for Diagnosis and Therapeutic Management in MS? *Gilles Defer, Richard Macrez, Axel Montagne, Maxime Gauberti, Denis Vivien, Fabian Docagne*
- 3:30 p.m. S21.007**  
Manganese Enhanced MRI (MEMRI) in Murine CNS Inflammatory Disease Models *Istvan Pirko, Jeffrey Gamez, Emily Shearier, Mekala Raman, Aaron Johnson, Slobodan Macura*
- S22**  
**Pathophysiology and Diagnosis of Parkinson's Disease**
- 2:00 p.m. Presentation of the Founders Award**
- Recipient:*  
**Amer Ghavanini, MD, PhD**  
*Toronto, Ontario, Canada*
- 2:15 p.m. S22.002**  
PET Imaging of Striatal Oxidative Stress in Patients with Parkinson's Disease Using <sup>62</sup>Cu-ATSM *Masamichi Ikawa, Hidehiko Okazawa, Takashi Kudo, Yasunari Nakamoto, Yasuhisa Fujibayashi, Makoto Yoneda*
- 2:30 p.m. S22.003**  
Distribution of Diminished Brain Microstructure in Parkinson's Disease: A Diffusion Tensor Imaging Study of the Parkinson's Progression Marker Initiative *Norbert Schuff, Katherine Wu, Shannon Buckley, Yu Zhang, John Seibyl, Kenneth Marek*
- 2:45 p.m. S22.004**  
Natural History of UPDRS Motor Scores in an Observational Parkinson's Disease Cohort *James Williams, Zoltan Mari, Gregory Pontone, Susan Bassett*
- 3:00 p.m. S22.005**  
Usefulness of  $\alpha$ -Synuclein as a Marker for Early Diagnosis of Parkinson's Disease in Skin Biopsy *Ildelfonso Rodriguez-Leyva, Ana Renteria-Palomo, Ana Calderon-Garcidueñas, Cornelia Fuentes-Ahumada, Hector Hernandez, Francisco Mendoza-Esquivel, Juan Castaneda-Cazares*
- 3:15 p.m. S22.006**  
The Topography of Brain Damage at Different Stages of Parkinson's Disease *Lidia Sarro, Federica Agosta, Elisa Canu, Tanya Stojkovic, Michela Pievani, Alexandra Tomic, Nataša Dragašević, Massimiliano Copetti, Giancarlo Comi, Vladimir Kostic, Massimo Filippi*
- 3:30 p.m. S22.007**  
Identification of Rare Variants in Parkinson Disease Using Next-Generation Sequencing *Jeffery Vance, Guney Bademci, Karen Nuytemans, Gary Beecham, Yvonne Edwards, Carlos Singer, Fatta Nahab, S. Rhodes, Beate Ritz, Stephan Zuchner, Jonathan Haines, William Scott*
- S23**  
**Intracerebral and Subarachnoid Hemorrhage**
- 2:00 p.m. S23.001**  
Utility of 3-Dimensional Reconstructions in Multiplanar CT Angiography Negative Spontaneous Subarachnoid Hemorrhage *Vineet Punia, Pinakin Jethwa, Chirag Gandhi, Charles Prestigiacomo*
- 2:15 p.m. S23.002**  
Ongoing Microinfarction in Patients with Intracerebral Hemorrhage *Eitan Auriel, Edip Guroi, Alison Ayers, Kristin Schwab, Anastasia Vashkevich, Jonathan Rosand, Anand Viswanathan, Steven Greenberg*
- 2:30 p.m. S23.003**  
Gradient-Echo and Segmented-EPI Imaging Comparison in Thrombolytic Treated Patients *Daymara Hernandez, Jose Merino, Jason Freeman, Marie Luby, Steven Warach, Lawrence Latour*
- 2:45 p.m. S23.004**  
Diagnostic Value of Lobar Microbleeds without Hemorrhagic Stroke: A Radiological-Pathological Correlation Study *Sergi Martinez-Ramirez, Alison Ayres, Edip Guroi, Jonathan Rosand, Steven Greenberg, Anand Viswanathan*
- 3:00 p.m. S23.005**  
Anti-Epileptic Drug Use and Outcome in the Ethnic and Racial Variations in Intracerebral Hemorrhage (ERICH) Study *Kevin Sheth, Sebastian Koch, Mitchell Elkind, Gene Sung, Steven Kittner, Michael Frankel, Jonathan Rosand, Carl Langefeld, Mary Comeau, Salina Waddy, Jennifer Osborne, Daniel Woo, For the ERICH Investigators*
- 3:15 p.m. S23.006**  
Gene Expression Profiling in Peripheral Blood in Ruptured Intracranial Aneurysm *Joanna Pera, Michal Korostynski, Marcin Pechota, Sławomir Golda, Mariusz Krupa, Marek Moskala, Ryszard Przewlocki, Andrzej Szczudlik, Agnieszka Slowik*
- 3:30 p.m. S23.007**  
Reliability of Hematoma Volume Calculation at Local Sites in the Setting of a Multicenter Intracerebral Hemorrhage Clinical Trial *Haiham Hussein, Nauman Tariq, Adnan Qureshi*
- S24**  
**Aging and Dementia: Clinical Aspects and Epidemiology**
- 2:00 p.m. S24.001**  
Incidence of Mild Cognitive Impairment in the CHS Cognition Study *Oscar Lopez, James Becker, Yue-Fang Chang, Robert Sweet, Steven DeKosky, H. Michael Gach, Owen Carmichael, Eric McDade, Lewis Kuller*
- 2:15 p.m. S24.002**  
Physical Activity and Cognitive Trajectories in Cognitively Normal Middle-Aged and Elderly Adults: Longitudinal Findings from the Adult Children Study *Rachel Pizzie, Halley Hindman, Catherine Roe, Denise Head, Elizabeth Grant, John Morris, Jason Hassenstab*
- 2:30 p.m. S24.003**  
Walking Speed, Handgrip Strength and Risk of Dementia and Stroke: The Framingham Offspring Study *Erica Camargo, Alexa Beiser, Zaldy Tan, Rhoda Au, Charles DeCarli, Aleksandra Pikula, Margaret Kelly-Hayes, Carlos Kase, Philip Wolf, Sudha Seshadri*
- 2:45 p.m. S24.004**  
Prediction of Road Test and Naturalistic Driving Ability of Older People with and without Cognitive Impairment in the Office Setting *Brian Ott, Jennifer Davis, Scott Hewitt, David Carr*
- 3:00 p.m. S24.005**  
Risk Factors for Dementia with Lewy Bodies *Brendon Boot, Carolyn Orr, Tanis Ferman, Rosebud Roberts, Vernon Pankratz, Dennis Dickson, J. Ahlskog, David Knopman, Ronald Petersen, Bradley Boeve*
- 3:15 p.m. S24.006**  
Acceleration of White Matter Hyperintensity Burden Preceding Onset of Mild Cognitive Impairment *Lisa Silbert, Hiroko Dodge, Louie Perkins, David Lahna, Jeffrey Kaye*
- 3:30 p.m. S24.007**  
Cognitive Performance over Time and APOE4 in Non-Demented Oldest-Old *Archana Balasubramanian, Claudia Kawas, Carrie Peltz, Maria Corrada*
- S25**  
**Anterior Horn**
- 2:00 p.m. S25.001**  
Results of a Phase 1, Double-Blind, Placebo-Controlled, Dose-Escalation Study of the Safety, Tolerability, and Pharmacokinetics of ISIS 333611 Administered Intrathecally to Patients with Familial ALS Due to SOD1 Gene Mutations *Timothy Miller, Richard Smith, Alan Pestronk, William David, Jeffrey Rothstein, Ericka Simpson, Patricia Andres, Katy Mahoney, Peggy Allred, Katie Alexander, Kathie Bishop, David Schoenfeld, Erin Macklin, Daniel Norris, C. Bennett, Merit Cudkovicz*
- 2:15 p.m. S25.002**  
A Prospective, Randomized Controlled Trial of Valproic Acid in Ambulant Adults with SMA: The VALIANT Trial *Bakri Elsheikh, Stephen Kolb, Wendy King, Sharon Chelnick, Charles Scott, Bernard LaSalle, Kristin Krosschell, Sandra Reyna, Kathryn Swoboda, John Kissel*
- 2:30 p.m. S25.003**  
The Therapeutic Effects of RG3039 in Severe Spinal Muscular Atrophy Mice and Normal Human Volunteers *James Van Meerbeke, Rebecca Gibbs, Heather Plasterer, Zhihua Feng, Ming-Yi Lin, Claribel Wee, Bing Xia, Vincent Jacques, James Rusche, Chien-Ping Ko, Charlotte Sumner*
- 2:45 p.m. S25.004**  
The EMPOWER Study: Design, Methodology and Baseline Features of the First Phase III Clinical Trial of Dexpramipexole for Patients with ALS *Merit Cudkovicz, Leonard Van den Berg, Michael Bozik, Evan Ingersoll, Alex Coppell, Wildon Farwell, Yingwen Dong, Douglas Kerr*
- 3:00 p.m. S25.005**  
A Study To Evaluate Safety, and Tolerability of Repeated Doses of CK-2017357 (CK-357) in Patients with Amyotrophic Lateral Sclerosis *Jeremy Shefner, Richard Barohn, Kevin Boylan, Deborah Bradshaw, Benjamin Brooks, Terry Heiman-Patterson, Jonathan Katz, Nicholas Maragakis, Hiroshi Mitsumoto, Alan Pestronk, Zachary Simmons, Andrew Wolff, Jacqueline Lee, Jean Masonek, Drew Jones, Lisa Meng, Jesse Cedarbaum*
- 3:15 p.m. S25.006**  
Electrical Impedance Myography as a Biomarker To Assess ALS Progression *Seward Rutkove, James Caress, Michael Cartwright, Ted Burns, Judy Warder, William David, Namita Goyal, Nicholas Maragakis, Lora Clawson, Michael Benatar, Sharon Usher, Khema Sharma, Shiva Gautam, Pushpa Narayanaswami, Elizabeth Raynor, Mary Lou Watson, Jeremy Shefner*
- 3:30 p.m. S25.007**  
Are Cognitive Changes in Amyotrophic Lateral Sclerosis Markers for Distinct Disease Subtypes? A Population-Based Longitudinal Study *Marwa Elamin, Peter Bede, Susan Byrne, Norah Jordan, Laura Gallagher, Catherine Lynch, Caoimhe O'Brien, Brona Wynne, Niall Pender, Orla Hardiman*



**S26****Epilepsy: Molecular and Genetics****2:00 p.m. Presentation of the Dreifuss-Penry Epilepsy Award**

Recipient:  
**Tobias Loddenkemper, MD**  
Boston, MA

**2:15 p.m. S26.002**

Neuroprotectin D1 Attenuates Epileptogenesis *Alberto Musto, Kaveh Khoobehi, Chelsey Walker, Nicolas Bazan*

**2:30 p.m. S26.003**

Altered Circadian Rhythms and Clock Genes in Epileptic Mouse Model *Rama Maganti, Eli Wallace, Do Young Kim*

**2:45 p.m. S26.004**

Applying Multiple Predictive Algorithms to the Molecular Diagnosis of Epilepsy *Marina Gonsales, Paula Preto, Maria Montenegro, Marilisa Guerreiro, Iscia Lopes-Cendes*

**3:00 p.m. S26.005**

Prevalence of HLA-B\*1502 Allele in South Indian Epileptic and Non Epileptic Population *Sivakumar Rajappa, Srinivasan Venkatesan*

**3:15 p.m. S26.006**

Role of M-Type Potassium Channels Glutamatergic Synaptic Transmission and Status Epilepticus *Jaideep Kapur, Jian Sun*

**3:30 p.m. S26.007**

Reduced Serotonin Transporter Promoter Activity in Mesial Temporal Sclerosis and Temporal Lobe Epilepsy *William Theodore, Irene Dustin, Omar Khan, Coiln Hodgkinson, Longina Akhtar, David Goldman*

**S27****Genetics and Molecular Mechanisms****2:00 p.m. S27.001**

Establishing a Charcot-Marie-Tooth (CMT) Induced Pluripotent Stem Cell Bank: Towards a Human Disease Model for CMT *Mario Saporta, Michael Shy, John Dimos*

**2:15 p.m. S27.002**

Abnormal Mitochondrial Trafficking and Cytoskeletal Organization in a Human Induced Pluripotent Stem Cell and a Mouse Model of Charcot-Marie-Tooth Disease Type 2E *Mario Saporta, Dmitri Volfson, Adijat Adebola, Michael Shy, Ronald Liem, John Dimos*

**2:30 p.m. S27.003**

A Screening Assay for Myelin Protein Zero Mutants: Unfolded Protein Response Activation and Its Significant Reduction by Curcumin Treatment *Agnes Patzko, John Kamholz, Jasloveen Sohi, Elisa Tinelli, Paola Saveri, Domenica Vizzuso, Laura Feltri, Lawrence Wrabetz, Michael Shy*

**2:45 p.m. S27.004**

Virtual Demyelination and Tight Junction Defect in PMP22 Deficiency *Jiasong Guo, Qing Yan, Gina Sosinsky, Mark Ellisman, Ueli Suter, Jun Li*

**3:00 p.m. S27.005**

Gene Identification in Axonopathies by Applying Massive Whole Exome Sequencing *Stephan Zuchner, Michael Gonzalez, Rebecca Schuele, Carly Siskind, Eric Powell, Gladys Montenegro, Guo Shengru, Susan Blanton, Gary Beecham, Fiorella Spezziani, Tine Deconinck, Peter Young, Marina Kennerson, Garth Nicholson, Peter De Jonghe, Jeffery Vance, Ludger Schoels, Mano J. Menezes, David Hermann, Steven Scherer, Mary Reilly, Mike Shy, Stephan Zuchner*

**3:15 p.m. S27.006**

DNA-Methyltransferase1 Mutation Screening in Hereditary Sensory Neuropathy 1 (HSAN1) with Dementia and Hearing Loss, Familial Frontotemporal Dementia and Alzheimer's Disease *Christopher Klein, Garth Nicholson, Thomas Bird, John Kwok, Yanhong Wu, Sarah Lincoln, Peter Dyck, Nilufer Taner*

**3:30 p.m. S27.007**

A Novel MFN2 Mutation Responsible for mtDNA Instability: A Family with Optic Atrophy, Axonal Neuropathy, CNS Features and Mitochondrial Myopathy with Multiple mtDNA Deletions *Annie Verschueren, Cecile Rouzier, Brigitte Chabrol, Jean-Francois Pellissier, Nathalie Palot, Jean Pouget, Veronique Paquis-Flucklinger*

**S28****Child Neurology****2:00 p.m. S28.001**

Access to Pediatric Neurology Care in Underserved Populations: A Comparison of Two Staffing Models in Medical Home Settings *David Urion, Hanalise Huff*

**2:15 p.m. S28.002**

What Procedure Is Most Informative in the Evaluation of Children with Chiari Type I Malformation? *Radhika Dhamija, Nicholas Wetjen, Nancy Slocumb, Alice Patton, Suresh Kotagal*

**2:30 p.m. S28.003**

Loss of White Matter Microstructural Integrity Is Associated with Adverse Neurological Outcome in Tuberous Sclerosis Complex *Jurriaan Peters, Mustafa Sahin, Vanessa Vogel-Farley, Shafali Jeste, Charles Nelson, Matthew Gregas, Sanjay Prabhu, Benoit Scherrer, Simon Warfield*

**2:45 p.m. S28.004**

Minocycline Attenuates Microglia Activation and Blocks the Long-Term Epileptogenic Effects of Early-Life Seizures *Jayne Abraham, Patrick Fox, Sookyong Koh*

**3:00 p.m. S28.005**

Initial Study of rh-IGF1 (Mecasermin [DNA] Injection) for Treatment of Rett Syndrome and Development of Rett-Specific Novel Biomarkers of Cortical and Autonomic Function *Eugenia Ho, Katherine Barnes, Heather O'Leary, Matthew Gregas, Ingrid Holm, Leonard Rappaport, Mriganka Sur, Omar Khwaja*

**3:15 p.m. S28.006**

Deep Brain Stimulation in Children with Dystonia: Experience from a Tertiary Care Center *Partha Ghosh, Andre Machado, Milind Deogaonkar, Debabrata Ghosh*

**3:30 p.m. S28.007**

Rapid and Dramatic Decreases of Cerebral 5-Methyltetrahydrofolate: A Treatable Form of Progressive Neurodegeneration *Maureen Stames, John Shoffner, Keith Hyland*

**S29****Moving Toward Treatment****2:00 p.m. Presentation of the Norman Geschwind Prize in Behavioral Neurology**

Recipient:  
**Marco Catani, MD**  
London, United Kingdom

**2:15 p.m. S29.002**

The Neural Basis of Successful Oral Word Reading in Chronic Aphasia *Sara Berentsen, William Graves, Michael Seidenberg, Jeffrey Binder*

**2:30 p.m. S29.003**

Assessment of Cholinergic and Cognitive Function in Healthy Young Adults Using Pharmacologic ASL Perfusion MRI *Li-Wen Huang, Weiyang Dai, David Alsop, Leo Waterston, Sharon Inouye, Tamara Fong*

**2:45 p.m. S29.004**

Impulsivity and Catechol-O-Methyltransferase Inhibition: A Translational Study *Andrew Kayser, Daicia Allen, Ana Navarro-Cebrian, Jennifer Mitchell, Howard Fields*

**3:00 p.m. S29.005**

Transcranial Direct Current Stimulation Enhances Contralateral Visual Target Detection *Roy Hamilton, Jared Medina, Jacques Beauvais, Abhishek Datta, Marom Bikson, H. Coslett*

**3:15 p.m. S29.006**

Dissociated Response to Prism Adaptation: "Aiming" Spatial-Motor Bias, Not "Where" Perceptual-Attentional Bias, Is Key Predictor *A. Barrett, Kelly Goedert, Peii Chen, Raymond Boston*

**3:30 p.m. S29.007**

A Dose Finding Study of Intranasal Oxytocin in Behavioral Variant Frontotemporal Dementia *Elizabeth Finger, Sarah Jesso, Katherine Rankin, Adam Boxer, Andrew Kertesz*

**S30****Multiple Sclerosis: Clinical Interventions and Clinical Trials****2:00 p.m. S30.001**

BAF312, a Selective Sphingosine-1-Phosphate Receptor Modulator Improves MRI and Clinical Outcomes in Relapsing-Remitting Multiple Sclerosis (RRMS) *Olaf Stuve, Krzysztof Selmaj, David Li, Hans-Peter Hartung, Bernhard Hemmer, Ludwig Kappos, Mark Freedman, Peter Rieckmann, Xavier Montalban, Lixin Zhang Auberson, Harald Pohlmann, Francois Mercier, Frank Dahlke, Erik Wallstrom*

**2:15 p.m. S30.002**

Phase 1 Clinical Trial of Autologous Mesenchymal Stem Cell Transplantation in Multiple Sclerosis *Jeffrey Cohen, Amit Bar-Or, Robert Bermel, Elizabeth Fisher, Robert Fox, Stanton Gerson, Peter Imrey, Hilliard Lazarus, Sarah Planchon, Jane Reese, Cynthia Schwanger, Thomai Skaramagas*

**2:30 p.m. S30.003**

Effect of Teriflunomide on Relapses with Sequeles and Relapse Leading to Hospitalization in a Population with Relapsing Forms of Multiple Sclerosis: Results from the TEMSO Study *Aaron Miller, Fred Lublin, Paul O'Connor, Jerry Wolinsky, Giancarlo Comi, Ludwig Kappos, Mark Freedman, Tomas Olsson, Catherine Dive-Pouletty, Gaelle Bego-Le-Bagousse, Christian Confavreux*

**2:45 p.m. S30.004**

Temporal Changes in MRI Activity, Inflammation, Immunomodulation, and Gene Expression in Relapsing-Remitting Multiple Sclerosis Subjects Treated with Helminth Probiotic Trichuris Suis *John Fleming, Andrea Isaak, Lilia Vanessa Hardin, Jason Huston, Jessica Boland, Aimee Teo Broman, Christina Kendziorski, Aaron Field, Zsuzsanna Fabry*

**3:00 p.m. S30.005**

Trichuris Suis Ova Therapy for Relapsing Multiple Sclerosis – A Safety Study *Ana Voldsgaard, Peter Bager, Christian Kapel, Allan Roepstorff, Stig Thamsborg, Helle Soendergaard, Mads Melbye, Per Aakeson, Anne-Mette Leffers, Ellen Garde, Hartwig Siebner, Finn Sellebjerg, Per Soerensen*

**3:15 p.m. S30.006**

Long-Term Efficacy and Safety of Ocrelizumab in Patients with Relapsing-Remitting Multiple Sclerosis (RRMS): Week 96 Results of a Phase II, Randomized, Multicenter Trial *Stephen Hauser, Ludwig Kappos, David Li, Peter Calabresi, Paul O'Connor, Amit Bar-Or, Frederik Barkhof, Chris Wells, David Leppert, Robert Glanzman, Jeroen Tinbergen*

**3:30 p.m. S30.007**

Distinct Phenotype of Immortalized CSF B-Cells in Multiple Sclerosis *Paul Lee, Quangang Xu, Matthew Herman, Daniel Reich, Bibiana Bielekova*

## Integrated Neuroscience Session: Stem Cells

Coordinator: Massimo Pandolfo, MD

**Invited Speaker Session\* / 2:00 p.m. – 4:00 p.m.****2:00 p.m. – 2:30 p.m.** What Are Stem Cells, How Many Kinds Exist, How They Can Be Obtained, and What They Can Be Used For *TBD***2:30 p.m. – 3:00 p.m.** Stem Cells for Neurological Therapeutics *Evan Snyder, MD, PhD***3:00 p.m. – 3:30 p.m.** Stem Cells for Disease Modeling *Daniel Geschwind, MD, PhD***3:30 p.m. – 4:00 p.m.** Questions and Answers**Poster Rounds\* / 4:00 p.m. – 5:00 p.m.****IN8-1.001** Establishing a Charcot-Marie-Tooth (CMT) Induced Pluripotent Stem Cell Bank: Towards a Human Disease Model for CMT *Mario Saporta, Michael Shy, John Dimos***IN8-1.002** Cerebrospinal Fluid Derived from Progressive Multiple Sclerosis Patients Stimulates Differentiation of Neural Precursor Cells In Vitro *Barbara Cymring, Hannah Rosenthal, Massimiliano Cristofanilli, Saud Sadiq***IN8-1.003** Direct Conversion to Neurons from Adult Human Fibroblasts and Hematopoietic Stem Cells In Vitro *Avindra Nath, Elliot Choi, Tongguang Wang***IN8-1.004** Functional Dopaminergic Neurons Derived from Human Parthenogenetic Stem Cells *Ruslan Semechkin, Ibon Garitaonandia, Tatiana Abramihina, Tatjana Zogovic-Kapsalis, Richard West, Albrecht Mueller, Marie Csete, Andrey Semechkin***IN8-1.005** Commonly Utilized Chemotherapy Treatments Cause Severe Hippocampal Neural Stem Cell Loss and Damage the Dendritic Spines of Hippocampal Neurons *Daniela Bota, Xing Gong, Guntas Kankar, Kaijun Di, Adrienne Andres, Mark Linskey***IN8-1.006** Differential Increase of Circulating Hematopoietic Stem Cells (HSC) Following Therapeutic alpha 4-Integrin Blockade in Multiple Sclerosis: Correlation between HSC Mobilization Status and Response to Treatment *Miriam Mattosio, Richard Nicholas, Omar Malik, Francesco Dazzi, Jean Lee, Adam Waldman, Paolo Muraro***IN8-1.007** An Induced Pluripotent Stem Cell Model for Friedreich's Ataxia *Massimo Pandolfo, Satyan Chintawar, Marie Wattenhofer-Donz , H l ne Puccio***IN8-1.008** Effects of Ionizing Radiation on Neural Precursor Cells *Hongxin Chen, Steve Levison, Sonia De Toledo, Edouard Azzam, Nizar Souayah***IN8-1.009** Pooled Short Hairpin (shRNA) Library Screen Coupled with Next-Generation Sequencing Efficiently Uncover Transcriptional Network in Neural Lineage Development of Human Embryonic Stem Cells *Anna Szekely, Ying Zhang, Brian Reed, Vincent Schulz, Zheng Wang, Ghia Euskirchen, Michael Snyder, Natalia Ivanova, Sherman Weissman***IN8-1.010** Nonconvulsive Seizure in Post Stem Cell Transplant Patients *Pantea Zohrevand, Sudhakar Tummala***Data Blitz Session\* / 5:00 p.m. – 5:30 p.m.****5:00 p.m. IN8-2.001** Abnormal Mitochondrial Trafficking and Cytoskeletal Organization in a Human Induced Pluripotent Stem Cell and a Mouse Model of Charcot-Marie-Tooth Disease Type 2E *Mario Saporta, Dmitri Volfson, Adijat Adebola, Michael Shy, Ronald Liem, John Dimos***5:05 p.m. IN8-2.002** Gene Corrected Spinal Muscular Atrophy-Induced Pluripotent Stem Cells and Motoneuron as a Model and Cell Source for Transplantation *Stefania Corti, Monica Nizzardo, Chiara Simone, Marianna Falcone, Martina Nardini, Dario Ronchi, Chiara Donadoni, Sabrina Salani, Giulietta Riboldi, Giorgia Menozzi, Clara Bonaglia, Francesca Magri, Nereo Bresolin, Giacomo Comi***5:10 p.m. IN8-2.003** Phase 1 Clinical Trial of Autologous Mesenchymal Stem Cell Transplantation in Multiple Sclerosis *Jeffrey Cohen, Amit Bar-Or, Robert Bermel, Elizabeth Fisher, Robert Fox, Stanton Gerson, Peter Imrey, Hilliard Lazarus, Sarah Planchon, Jane Reese, Cynthia Schwanger, Thomai Skaramagas***5:15 p.m. IN8-2.004** Allogeneic Gene-Modified Mesenchymal Stem Cells for Stable Stroke: Mechanism of Action and Translation to the Clinic *Casey Case***5:20 p.m. IN8-2.005** Human Mesenchymal Stem Cells (MSC) Reciprocally Modulate Th1 and Th17 Responses: Role for PGE2 *Peter Darlington, Ayal Rozenberg, Marie-Noelle Boivin, Hillard Lazarus, Sarah Planchon, Jane Reese, Yi Ariel Liu, Jeffrey Cohen, Amit Bar-Or***Panel Discussion / 5:30 p.m. – 6:00 p.m.**

\*Speakers and titles are subject to change

## Poster Discussion Session: Multiple Sclerosis: Clinical Trial Disease Activity Freedom

**PD5.001** The Sustained Disease Activity Free Status as a Measure of Therapeutic Response & the Long Term Impact of Immunomodulatory Treatment *Adriana Carra, Galeno Rojas, Carlos Vrech, Sergio Lindembaum*

**PD5.002** Early Initiation of Interferon Beta-1b after a First Clinical Event Suggestive of Multiple Sclerosis: Clinical Outcomes and Use of Disease-Modifying Therapy from the BENEFIT Extension Study *Gilles Edan, Ludwig Kappos, Xavier Montalban, Chris Polman, Mark Freedman, Hans Hartung, David Miller, Frederik Barkhof, Vivian Lanius, Brigitte Stemper, Christoph Pohl, Rupert Sandbrink, Dirk Pleimes*

**PD5.003** Dosing Natalizumab Every Other Month Following 2 Years of Monthly Dosing *Carmelo Tomatore, April Erwin*

**PD5.004** Relapse Outcomes with Alemtuzumab vs. Rebif® in Treatment-Naïve Relapsing-Remitting Multiple Sclerosis (CARE-MS I): Secondary and Tertiary Endpoints *Edward Fox, Douglas Arnold, Vesna Brinar, Jeffrey Cohen, Alasdair Coles, Christian Confavreux, Gavin Giovannoni, Hans Hartung, Eva Havrdova, Krzysztof Selmaj, Miroslav Stojanovic, Howard Weiner, Stephen Lake, David Margolin, Michael Panzara, Alastair Compston*

**PD5.005** BG-12 Increases the Proportion of Patients Free of Clinical and Radiologic Disease Activity in Relapsing-Remitting Multiple Sclerosis: Findings from the DEFINE Study *Gavin Giovannoni, Ralf Gold, Ludwig Kappos, Douglas Arnold, Amit Bar-Or, Krzysztof Selmaj, Annie Zhang, Sarah Sheikh, Katherine Dawson*

**PD5.006** Fingolimod Treatment Increases the Proportion of Patients Who Are Free from Disease Activity in Multiple Sclerosis Compared to IFN- $\beta$ 1a: Results from a Phase 3, Active-Controlled Study (TRANSFORMS) *Bhupendra Khatri, Frederik Barkhof, Giancarlo Comi, James Jin, Gordon Francis, Jeffrey Cohen*

**PD5.007** Teriflunomide Increases the Proportion of Patients Free from Disease Activity in the TEMSO Phase III Study *Mark Freedman, Paul O'Connor, Jerry Wolinsky, Christian Confavreux, Giancarlo Comi, Ludwig Kappos, Tomas Olsson, Philippe Truffinet, Deborah Dukovic, Aaron Miller*

**PD5.008** Early Clinical Predictors of Sustained Disease-Activity-Free Status in Patients with Relapsing-Remitting Multiple Sclerosis Treated with Glatiramer Acetate and Interferon Beta *Galeno Rojas, Carlos Vrech, F. Leguizamón, S. Lindembaum, Adriana Carra*

**PD5.009** Predictors of Disease Activity in 857 MS Patients Treated with IFN $\beta$ -1b *Hans Hartung, Ludwig Kappos, Douglas Goodin, Paul O'Connor, Massimo Filippi, Barry Arason, Giancarlo Comi, Stuart Cook, Douglas Jeffery, John Petkau, Timon Bogumil, Volker Knappertz, Karola Beckmann, Brigitte Stemper, Christoph Pohl, Rupert Sandbrink*

**PD5.010** An Early Disease Activity Composite Can Predict Long-Term Disease Outcome in CHAMPIONS *Revere Kinkel, Jack Simon, Emmanuelle Waubant, Elizabeth Fisher, Xiaojun Yu*

## Sleep Disorders

**PD5.001** Nocturnal Limb Movements Are Correlated with Cerebral White Matter Hyperintensities *Mark Boulos, Jacqueline Pettersen, Dana Jewell, Sandra Black, Brian Murray*

**PD5.002** Excessive Sleepiness and Depression in Parkinson's Disease *Aliya Sarwar, Max Hirshkowitz*

**PD5.003** Safety and Efficacy of Armodafinil for the Treatment of Excessive Sleepiness Associated with Mild or Moderate Closed Traumatic Brain Injury: A 12-Week, Randomized, Double-Blind Study Followed by a 12-Month Open-Label Extension *Stuart Menn, Craig Earl, Ronghua Yang, Alan Lankford*

**PD5.004** Color Discrimination and Cognitive Impairment in Idiopathic REM Sleep Behavior Disorder *Josie-Anne Bertrand, Ronald Postuma, Daphne Genier-Marchand, Jacques Montplaisir, Jean-Francois Gagnon*

**PD5.005** Automated Quantification of Axial EMG Tone in Sleep Identifies Patients with REM Sleep Behavior Disorder *Russell Rasquinha, Alex Moszczynski, Brian Murray*

**PD5.006** Onabotulinum Toxin-A Injections for Nocturnal Bruxism: A Parallel, Double Blind, Placebo Controlled Polysomnographic Study *William Onda, Vera Hashem, Christine Hunter, Jerry Simmons*

**PD5.007** Paradoxical Alteration in Cortical Excitability Following 10 Hz rTMS in Patients with Untreated Obstructive Sleep Apnea Syndrome (OSAS) *Abhijit Das, Anupa Vijayakumari, Ashalatha Radhakrishnan*

**PD5.008** Nocturnal Hypermotor Syndrome in Obstructive Sleep Apnea Mistaken for Seizures and Parasomnias *Sumaiya Salim, Sushanth Bhat, Liudmila Lysenko, Disha Patel, Sudhansu Chokroverty*

**PD5.009** Occurrence and Daergic Therapy Correlates of REM Sleep Behaviour Disorder in a Large Population of Patients with Parkinson's Disease *Monica Puligheddu, Gioia Gioi, Patrizia Congiu, Iliaria Laccu, Michela Figorilli, Antonino Cannas, Paolo Solla, Gianni Orofino, Matteo Fraschini, Francesco Marrosu*

**PD5.010** Restless Legs Syndrome and Hormonal Replacement Therapy in Women at Menopausal Age *Mariusz Sieminski, Magdalena Karwacka, Walenty Nyka*

**PD5.011** Sleep Pattern Change, Sleep Complaints and Pregnancy Outcome in Korean Pregnant Women *Sang Kil Lee, Jee Hyun Kim, Yong Joo Lee, Chang Min Lee, Geun-ho Lee, Jae Il Kim, Yun Dan Kang*

## Movement Disorders: Ataxia and Cerebellar Disease

**PD5.012** T2 Relaxation Time Correlates with Disease Severity in Friedreich's Ataxia *Cynthia Silva, Felipe Bergo, Anelyssa D'Abreu, Iscia Lopes-Cendes, Marcondes França, Jr*

**PD5.013** Characterizing POLG-Ataxia: Clinics, Electrophysiology, and Imaging *Matthis Synofzik, Karin Surljies, Jana Godau, Daniela Berg, Ludger Schoels*

**PD5.014** A Mutation in the RNF170 Gene Causes Autosomal Dominant Sensory Ataxia *Nicolas Dupre, Paul Valdmans, Shawn Stochmanski, Veronique Belzil, Patrick Dion, Isabelle Thiffault, Bernard Brais, Lyle Weston, Louis Saint-Amant, Mark Samuels, Guy Rouleau*

**PD5.015** To Investigate Olfactory Impairment in Cerebellar Ataxia *Mariana Moscovich, Renato Munhoz, Helio Teive, Salmo Raskin, Jilin Liu, Karen McFarland, Tetsuo Ashizawa, Andrew Lees, Laura Silveira-Moriyama*

**PD5.016** Ataxia after Vaccination in United States, a Report from the CDC/FDA Vaccine Adverse Event Reporting System [1990–2010] *Zubeda Sheikh, Wael Abukwaik, Nizar Souayah*

**PD5.017** Diverse and Unstable Pentanucleotide Repeats at the Spinocerebellar Ataxia Type 31 (SCA31) Locus in Caucasians *Kinya Ishikawa, Alexandra Durr, Thomas Klopstock, Nozomu Sato, Giovanni Stevanin, Alexis Brice, Hidehiro Mizusawa*

**PD5.018** CSF Biomarkers in Spinocerebellar Ataxias *Ashley Brouillette, Christopher Gomez*

**PD5.019** The National Ataxia Registry *S. Subramony, B. Beaulieu, P. Deleyrolle, S. Hagen, B. Hartnett, M. Ohman, T. Zhu, Tetsuo Ashizawa*

**PD5.020** Leukodystrophies in Patients with Adult-Onset Ataxia: Frequency and Phenotype *Jennifer Müller vom Hagen, Matthis Synofzik, Julia Schicks, Ingeborg Krägeloh-Mann, Ludger Schöls*

**PD5.021** D2R Agonist Bromocriptine Improves Neurodegeneration in Spinocerebellar Ataxia Type 1 Mouse Model *Scoty Hearst, Mariper Lopez, Qingmei Shao, Parminder Vig*

**PD5.022** An Induced Pluripotent Stem Cell Model for Friedreich's Ataxia *Massimo Pandolfo, Satyan Chintawar, Marie Wattenhofer-Donzé, Hélène Puccio*

**PD5.023** Survey of Non-Motors Symptoms in Patients with Friedreich Ataxia *Cynthia Silva, Anelyssa D'Abreu, Iscia Lopes-Cendes, Marcondes França, Jr*

**PD5.024** MRI T2-Relaxometry in Spinocerebellar Ataxia Type 3 (Machado-Joseph Disease) *Beatriz Silva, Rachel Guimaraes, Felipe Bergo, Marcondes Franca, Anelyssa D'Abreu, Iscia Lopes-Cendes, Fernando Cendes*

## Poster Session V

**P05.025** A Novel Neurodegenerative Disorder Characterized by Dentatorubrothalamic and Corticospinal Tract Degeneration *Ruth Schneider, Karen Odrzywolski, Thomas Bird, Deborah Friedman, Gabrielle Yeaney, Marina Kennerson, Krystal Huxlin, Anasuya Das, James Garbem*

**P05.026** Evaluation of Intensity Signal in Dentate Nucleus on T2-Weighted Imaging To Diagnose Patients with Cerebellar Ataxia *Kiyobumi Ota, Kinya Ishikawa, Hidehiro Mizusawa*

**P05.027** Characterization of Sequence Interruptions in ATTCT Repeat Expansions in SCA10 *Jilin Liu, Karen McFarland, Matthew Bower, Guangbin Xia, Ivette Landrian, Khalaf Bushara, Samuel Wu, Diane Hunter, Tetsuo Ashizawa*

**P05.028** Novel Mutations in Ataxia Telangiectasia and AOA2 Associated with Prolonged Survival *Marie Davis, Corrine Smith, Connor Sheehy, Sat Dev Batish, Phillip Swanson, Thomas Bird*

**P05.029** EEG Abnormalities in the Episodic Ataxias *Tracey Graves, Doreen Fialho, Shelagh Smith, Yoon-Hee Cha, Anthony Amato, Robert Griggs, Brian Bundy, Joanna Jen, Robert Baloh, Michael Hanna*

**P05.030** The Natural History of Marinesco-Sjögren Syndrome *Ibrahim Mahjneh, Anna-Kaisa Anttonen, Anna-Elina Lehesjoki*

**P05.031** Copy Number Variation in the *GBE1* Gene is not the Cause of Adult Polyglucosan Body Disease in a Symptomatic Heterozygote. *Brent Fogel, Paul Botros*

#### Aging and Dementia: Other Dementias

**P05.032** Update of the Original HDLS Kindred: Divergent Clinical Courses *Oluf Andersen, Anne Börjesson-Hanson, Thomas Lindén, Henrik Zetterberg, Claes Nordborg, Sigrun Roeber, Christina Sundal*

**P05.033** Normal Pressure Hydrocephalus and Pulse Pressure (NPH): The ARIC Study *Neill Graff-Radford, David Knopman, Alan Penman, Laura Coker, Thomas Mosely*

**P05.034** Clinical and Cognitive Correlates of White Matter Tract Damage in Progressive Supranuclear Palsy *Sebastiano Galantucci, Federica Agosta, Kristina Davidovic, Marina Svetel, Massimiliano Copetti, Milica Jecmenica Lukic, Alexandra Tomic, Giancarlo Comi, Vladimir Kostic, Massimo Filippi*

**P05.035** Volumetric Imaging of Gray and White Matter in Corticobasal Syndrome *Rachel Goldmann Gross, Corey McMillan, Philip Cook, Murray Grossman*

**P05.036** Cortical and Subcortical Atrophy and Diffusion Restriction in SCJD *Eduardo Caverzasi, Paolo Vitali, Bruce Miller, Maria Luisa Mandelli, Stefano Bastianello, Roland Henry, Michael Geschwind*

**P05.037** Heterogeneity of Neurodegenerative Diseases on Guam *Suzee Lee, Carmela Tartaglia, Michael Geschwind, David Perry, Shayna Afaisen, Teresa Wu, Baber Khan, John Steele, Bruce Miller*

**P05.038** Logopenic Variant of Primary Progressive Aphasia in Lewy Body Dementia: Beyond Alzheimer's Disease *Raffaella Migliaccio, Carole Roue-Jagot, Bruno Dubois, Marc Teichmann*

**P05.039** Clinical and Neuropsychological Features of Pure and Mixed Hippocampal Sclerosis Dementia *Jagan Pillai, Steven Edland, Timothy Gahagan, David Salmon, Douglas Galasko*

**P05.040** Neuropsychiatric Features of Parkinsonism Dementia Complex and Other Neurodegenerative Diseases on Guam *Carmela Tartaglia, Suzee Lee, Michael Geschwind, David Perry, Shayna Afaisen, Baber Khan, Teresa Wu, Henry Rodriguez, Robin Ketelle, John Steele, Bruce Miller*

**P05.041** A Diffusion Tensor Imaging Analysis of White Matter Disease in Corticobasal Syndrome *Keerthi Chandrasekaran, Corey McMillan, Caroline Brun, Philip Cook, Paul Yushkevich, James Gee, Murray Grossman*

#### Aging and Dementia: Early Onset Dementia

**P05.042** Changes in Cortical Thickness in Early Onset Versus Late Onset Alzheimer's Disease: A Three-Year Longitudinal Study *Hanna Cho, Seun Jeon, Geon Ha Kim, Ji Soo Shin, Chi Hun Kim, Young Noh, Sang Won Seo, Duk L. Na*

**P05.043** Striatal Abnormalities in Early-Onset and Late-Onset Alzheimer's Disease *Michela Pievani, Martina Bocchetta, Marina Boccardi, Samantha Galluzzi, Matteo Bonetti, Paul Thompson, Giovanni Frisoni*

**P05.044** Patterns of Microstructural White Matter Damage in Early and Late Age of Onset Alzheimer's Disease Patients *Elisa Canu, Federica Agosta, Elisa Scola, Giuseppe Magnani, Alessandra Marcone, Alice Noris, Monica Falautano, Stefano Cappa, Andrea Falini, Giancarlo Comi, Massimo Filippi*

**P05.045** Differences between Familial and Non-Familial Early Onset Alzheimer's Disease *Aditi Joshi, Albert Lee, John Ringman, Kevin Juarez, Mario Mendez*

**P05.046** Early-Onset vs. Late-Onset Alzheimer's Disease: Neuropsychological and Neuroimaging Differences *Natalie Kaiser, Collin Liu, Rebecca Melrose, Elvira Jimenez, Lorena Monserratt, David Sultzer, Mario Mendez*

**P05.047** Early Onset Dementia: A Tunisian Cohort *Ines Belhouane, Mouna Ben Djebara, Yosr Hizem, Amina Gargouri, Riadh Gouider*

#### Aging and Dementia: Neuropathology and Basic Science

**P05.048** Peptidyl-Prolyl Isomerase Pin1: A Common Therapeutic Target for Synaptic Dysfunction and Protein Misfolding in Alzheimer's Disease *Frances Chow, Richard Tsai, Carol Lippa, Yuesong Gong*

**P05.049** Neuroimaging Correlates of Pathologically-Defined Atypical Alzheimer's Disease *Jennifer Whitwell, Dennis Dickson, Melissa Murray, Ronald Petersen, Clifford Jack, Keith Josephs*

**P05.050** RBD Is Associated with Reduced Alzheimer's Pathology in Dementia with Lewy Bodies *Melissa Murray, Tanis Ferman, Prashanthi Vemuri, Brittany Dugger, Clifford Jack, Bradley Boeve, David Knopman, Ronald Petersen, Joseph Paris, Dennis Dickson, Kejal Kantarci*

**P05.051** Frontal and Hippocampal Tangles and Plaque Density Are Associated with Anosognosia in Alzheimer Disease *Brenna Derksen, Thomas Beach, Ian Goldstein, Marwan Sabbagh, Benjamin Seltzer, Lucia Sue, Sandra Jacobson*

**P05.052** Anti-Endothelial Cell Antibodies in Patients with Alzheimer Disease *Akio Kimura, Takeo Sakurai, Megumi Yamada, Akihiro Koumura, Yuichi Hayashi, Yuji Tanaka, Isao Hozumi, Hirofumi Otaki, Mitsuhiro Chousa, Takashi Inuzuka*

**P05.053** Neuropathological Basis of Age-Associated Brain Atrophy *Deniz Erten-Lyons, Randall Woltjer, Hiroko Dodge, Lisa Silbert, Patricia Kramer, Jeffrey Kaye*

**P05.054** Progranulin Regulator miR-107 Shows Cross-Species Homology with Plant Viruses *Radhika Vaishnav, Jovan Rebolledo-Mendez, Ruma Raha-Chowdhury, Shivani Nandi, Andrew Roberts, Kenneth Palmer, Nigel Cooper, Robert Friedland*

**P05.055** Feasibility of Early Alzheimer's Disease Diagnosis Using a Random-Sequence Peptide Microarray *Lucas Restrepo, Phillip Stafford, Stephen Johnston*

**P05.056** Mixed Pathologies in Autopsied Brains of Patients with Alzheimer's Disease *Sameea Husain, Lakshmi Naveen, Donna Baudendistel, George Grossberg, Pratap Chand*

**P05.057** Immunohistochemical Characterization of Gamma-Secretase Activating Protein (GSAP) Expression in Alzheimer's Disease Brains *Jun-ichi Satoh, Hiroko Tabunoki, Kunimasa Arima*

#### Aging and Dementia: Frontotemporal Lobar Degeneration and Genetics

**P05.058** A Kindred with Familial Frontotemporal Dementia and/or Amyotrophic Lateral Sclerosis Associated with the GGGGCC Repeat Expansion in *C9ORF72* *Bradley Boeve, Jasper Daube, Mariely DeJesus-Hernandez, Joseph Paris, Dennis Dickson, Keith Josephs, Matt Baker, Karen Kuntz, Kris Johnson, David Knopman, Robert Ivnik, Ronald Petersen, Rosa Rademakers*

**P05.059** Retinal Lipofuscinosis as a Potential FTLD Biomarker *Michael Ward, Alice Taubes, Li Gan, Ari Green*

**P05.060** The Phenotype of the Hexanucleotide Repeat *C9FTD/ALS (C9ORF72)* *Sharon Sha, Leonel Takada, Katherine Rankin, Jennifer Yokoyama, Baber Khan, Anna Karydas, Jamie Fong, Nicola Rutherford, Matthew Baker, Mariely DeJesus-Hernandez, Giovanni Coppola, Rosa Rademakers, William Seeley, Bruce Miller, Adam Boxer*

**P05.061** Neuroanatomical Signature of *C9ORF72*: A Comparison to *MAPT*, Progranulin and Sporadic FTD *Jennifer Whitwell, Stephen Weigand, Bradley Boeve, Matthew Senjem, Mariely DeJesus-Hernandez, Matthew Baker, David Knopman, Zbigniew Wszolek, Joseph Paris, Dennis Dickson, Ronald Petersen, Rosa Rademakers, Clifford Jack, Keith Josephs*

**P05.062** Antemortem Characterization of a Kindred Carrying the Non-Coding GGGGCC Hexanucleotide Repeat Expansion in *C9ORF72* *Anahita Adeli, Bradley Boeve, Mariely DeJesus-Hernandez, Matthew Baker, Nicola Rutherford, David Knopman, Robert Ivnik, Julie Fields, Ronald Petersen, Rosa Rademakers*

**P05.063** Cognitive Endophenotype Associated with the *C9ORF72* GGGGCC Expansion in FTD/ALS *Otto Pedraza, Bradley Boeve, Mariely DeJesus-Hernandez, Beth Rush, John Lucas, Julie Fields, Mary Machulda, Neill Graff-Radford, David Knopman, Keith Josephs, Nicola Rutherford, Matthew Baker, Tanis Ferman, Glenn Smith, Robert Ivnik, Zbigniew Wszolek, Kevin Boylan, Ronald Petersen, Rosa Rademakers*

## Poster Session V

**P05.064** Cingulate Hypoperfusion Is a Common Feature of the Familial Fronto-Temporal Dementias *David Jones, Bradley Boeve, David Knopman, Ronald Petersen, Clifford Jack, Rosa Rademakers, Val Lowe*

**P05.065** Characterization of the Neuropsychiatric Features Associated with Mutations in *C9ORF72*, *MAPT* and *PGRN* *Anahita Adeli, Yonas Geda, Bradley Boeve, Neill Graff-Radford, Mariely DeJesus-Hernandez, David Knopman, Keith Josephs, Otto Pedraza, Beth Rush, Julie Fields, Nicola Rutherford, Matthew Baker, Glenn Smith, Robert Ivnik, Vernon Pankratz, Rosa Rademakers, Ronald Petersen*

**P05.066** Characteristics of Behavior-Variant Frontotemporal Dementia (FTD) across the Lifespan *Kelly Sloane, Kalyani Kansal, Peter Rabins, Chiadi Onyike*

**P05.067** Neurocognitive Phenotypes across Frontotemporal Lobar Degeneration TDP-43 Subtypes *Pamela Dean, Glenn Smith, Joseph Parisi, Dennis Dickson, Ronald Petersen, Keith Josephs*

#### Aging and Dementia: Genetics

**P05.068** The Presenilin-1 Mutation Leu173Trp Is Associated with Very Early-Onset Alzheimer's Disease and Progressive Myoclonic Epilepsy *Maiya Geddes, Marc Tischkowitz, Eva Andermann, Marie-Christine Guiot, Howard Chertkow*

**P05.069** Brain Expression Genome-Wide Association Study (eGWAS) Identifies Human Disease-Associated Variants *Nilufer Taner, Fanggeng Zou, High Seng Chai, Curtis Younkin, Julia Crook, Vernon Pankratz, Mariet Allen, Minerva Carrasquillo, Christopher Rowley, Asha Nair, Sumit Middha, Sooraj Maharjan, Thuy Nguyen, Li Ma, Kimberly Malphrus, Ryan Palusak, Sarah Lincoln, Gina Bisceglia, Constantin Georgescu, Naomi Kouri, Christopher Kolbert, Jin Jen, Ronald Petersen, Neill Graff-Radford, Dennis Dickson, Steven Younkin*

**P05.070** Genome-Wide Exploration of DNA Methylation in the Aging Brain and Its Relation to Alzheimer's Disease *Philip De Jager, Gyan Srivastava, Matthew Eaton, Lori Chibnik, Manolis Kellis, David Bennett*

**P05.071** BDNF Polymorphism Predicts the Rate of Decline in Skilled Task Performance and Hippocampal Volume in Healthy Individuals *Devsmita Das, Martha Sanchez, Joy Taylor, Art Noda, Jerome Yesavage, Ahmad Salehi*

**P05.072** Clinical and Molecular Studies Reveal a PSEN1 Mutation (L153V) in a Peruvian Family with Early-Onset Alzheimer's Disease *Mario Comejo Olivas, James Leverenz, Saul Lindo-Samanamud, Ignacio Mata, Pilar Mazzetti Soler, Maria Meza-Vega, Chang-En Yu, Thomas Bird*

**P05.073** Association of PICALM Gene with Late-Onset Alzheimer's Disease in Korean Population *Sun J. Chung, Jae-Hong Lee, Seong Yoon Kim, Soo You, Mi Jung Kim, Jaeyoung Koh*

**P05.074** Frequency of Fragile X Gene Expansions in Alzheimer Disease and Other Cognitive Disorders *Deborah Hall, Christopher Filley, Raj Shah, David Bennett, Benzi Kluger, Elizabeth Berry-Kravis*

**P05.075** A New Notch3 Mutation for CADASIL (Cerebral Autosomal Dominant Arteriopathy with Subcortical Infarcts and Leukoencephalopathy) Disease. A Family Reports *Maria Ascension Zea-Sevilla, Elena Toribio-Diaz, Pedro Bermejo-Velasco*

**P05.076** Differential Effect of the 5-HTTLPR Short Allele on Brain Morphology in bvFTD *Jennifer Yokoyama, Virginia Sturm, Anna Karydas, Giovanni Coppola, Bruce Miller, Katherine Rankin*

**P05.077** Genetic Variants Related to Lipid Metabolism as a Risk Factor for Late Onset Alzheimer's Disease in Brazilian Population *Marcela Pinhel, Gisele Amorim, Ariela Crestani, Greiciane Florim, Fabiana Gengivir, Michele Gregorio, Mario Hirata, Marcelo Nakazone, Joao Cacao, Doroteia Souza, Waldir Tognola*

#### Epilepsy: Basic Science and Genetics

**P05.078** microRNA Expression Profile in Mesial Temporal Sclerosis Provides Insight into Underlying Mechanisms *Danyella Dogini, Cristiane Rocha, Clarissa Yasuda, Helder Tedeschi, Evandro Oliveira, Claudia Maurer-Morelli, Fernando Cendes, Iscia Lopes-Cendes*

**P05.079** Role of ABCB1 Variants on Postoperative Seizure Recurrence in Patients with AED-Resistant Temporal Lobe Epilepsy *Shabeesh Balan, P. B. Sumitha, Thashi Bharadwaj, Sarada Lekshmi, Sanish Sathyan, Kurupath Radhakrishnan, Moinak Banerjee*

**P05.080** Gene Expression Profile in Genetic Models of Generalized Epilepsy: Clues into Underlying Mechanism *Alexandre Matos, Vinicius Pascoal, Deborah Nascimento, Cristiane Rocha, Jaira Vasconcellos, Maria Chamma, Cláudia Maurer-Morelli, Almir Martins, Angela Valle, Ana Lúcia Godard, Iscia Lopes-Cendes*

**P05.081** Investigating the Role of microRNAs Regulation in the Development of Focal Cortical Dysplasia *Simoni Avansini, Fabio Torres, Fabio Rogério, Danyella Dogini, Ana Coan, Rodrigo Secolin, Cristiane Rocha, Ana Costa, Andre Costa, Ana Piazza, Luzia Reis, Evandro Oliveira, Helder Tedeschi, Luciano Queiroz, Fernando Cendes, Iscia Lopes-Cendes*

**P05.082** Mutations in the Novel Protein PRRT2 Cause Paroxysmal Kinesigenic Dyskinesia with Infantile Convulsions *Hsien-yang Lee, Yong Huang, Robert Edwards, Michael Hanna, Anne Bowcock, Pierre Szepietowski, Ying-Hui Fu, Louis Ptacek*

**P05.083** The Influence of CDP-Choline on Bicuculline-Evoked Seizure Susceptibility in Hyper- and Normoglycemic Mice Exposed to Brain Oligemia/Hypoxia *Konrad Rejda, Robert Rejda, Malgorzata Chlebicka, Pawel Grieb, Zbigniew Stelmasiak*

**P05.084** Modelling of Clobazam's Interactions with the Benzodiazepine Binding Site and Analysis of Structural Receptor Subtype Differences *Anne Techau Bruun, Henrik Sindal Jensen, Bjarke Ebert*

**P05.085** Clobazam and Its Active Metabolite, N-Desmethylclobazam, Are Partial Benzodiazepine Receptor Agonists at Cloned GABA<sub>A</sub> Receptors Expressed in *Xenopus laevis* Oocytes *Anders Asbjørn Jensen, Harriet Hammer, Bjarke Ebert, Henrik Sindal Jensen*

**P05.086** Clobazam and Its Active Metabolite, N-Desmethylclobazam, Are High-Affinity Ligands for the Benzodiazepine Sites of GABA<sub>A</sub> Receptors *Henrik Sindal Jensen, Bjarke Ebert*

**P05.087** Lacosamide Does Not Alter In Vitro Long-Term Potentiation in Mouse Hippocampal CA1 Area *Isabelle Niespodziany, Nathalie Leclère, Christian Wolff*

**P05.088** Incidence and Genotypic Association of AED Related CADRs in a Sample Population of Hispanics and African American Patients of North America *Prakash Ambady, Jyoti Pillai, Niraj Arora*

#### Multiple Sclerosis: Disability Progression

**P05.089** Multiple Sclerosis: A Method To Identify High Risk for Secondary Progression *Bengt Skoog, Bjorn Runmarker, Anders Oden, Oluf Andersen*

**P05.090** Relating Relapse and T2 Lesion Changes to Disability Progression in MS: A Systematic Literature Review and Regression Analysis *Kyle Fahrbach, Rachel Huelin, Amber Martin, Edward Kim, Homa Dastani, Manoj Mahlotra, Stephen Rao*

**P05.091** Clinical Course of Multiple Sclerosis Patients on Long-Term Glatiramer Acetate Therapy with High Pretreatment EDSS Scores *Corey Ford*

**P05.092** Predictors of Time to First Disability Progression after CIS: An MSBase Substudy *Helmut Butzkueven, Tim Spelman, Vilija Jokubaitis, Michelle Rutherford, Mary Tanner, MSBasis Investigators*

**P05.093** Identifying Patients with Relapsing-Remitting Multiple Sclerosis Who Have Aggressive Disease Characterized by Rapid Disability Progression *Thomas Scott, Genevieve Laforet, Xiaojun Yu*

**P05.094** Relationship between Symptom Worsening, Relapse Activity and Disease Progression in Patients with Multiple Sclerosis *Robert Fox, Lindsey Homung, Stacey Cofield, Gary Cutter*

**P05.095** Multiple Sclerosis Survival in a Center in Argentina *Santiago Tizio, Natalia Pereira, Santiago Vetere*

**P05.096** Correlation of Changes in Patient-Reported Disability in the TOP MS Study Completer Cohort *Howard Zwiibel, Patricia Coyle, Merrikay Oleen-Burkey, Douglas Denney*

**P05.097** Cigarette Smoking and Disease Progression in Patients with Multiple Sclerosis: A Study of a Large United Kingdom Cohort *Cris Constantinescu, Ali Manouchehrinia, Christopher Tench, Rashid Bibani, John Britton*

**P05.098** Factors Influencing Disability Status at Baseline in the TOP MS Study *Howard Zwiibel, Patricia Coyle, Merrikay Oleen-Burkey, Douglas Denney*

#### Multiple Sclerosis: Environmental Influences

**P05.099** Soluble Thrombomodulin Levels and Their Implications in Multiple Sclerosis *Barry Festoff, Chaoyang Li, Sharon Lynch*

**P05.100** The Natural Antioxidant  $\alpha$ -Tocopherol (Vitamin E) Activates the cAMP Signaling Cascade and Alters Immune Cell Function: Implications for MS Therapy *Sonemany Salinthonne, Dennis Bourdette, Daniel Carr*

**P05.101** Serum Vitamin D<sub>3</sub> Concentration Correlates with the Severity of Multiple Sclerosis *Saeed Shahbeigi, Hosein Pakdaman, Seyed Mohammad Fereshtehnejad, Ghazal Jalilzadeh, Maliheh Heydari*

**P05.102** The Role of Vitamin D Status in Optic Neuritis Recovery *Jodie Burton, Chelsia Tung, Jessie Trufyn, Misha Eliasziw, Fiona Costello*

**P05.103** Vitamin D Levels Predict Severity of MS and Relapse Activity *Thomas Scott, Donald Dworek, Christopher Hackett, Carol Schramke*

**P05.104** Prognostic Value of Vitamin D in Clinically Isolated Syndromes (CIS) *Vittorio Martinelli, Gloria Dalla Costa, Bruno Colombo, Dacia Dalla Libera, Letizia Leocani, Roberto Furlan, Alessandro Rubinacci, Massimo Filippi, Giancarlo Comi*

**P05.105** Vitamin D Levels in Hispanics with Multiple Sclerosis *Lilyana Amezcua, Rachel Chung, David Conti, Annette Langer-Gould*

## Poster Session V

**P05.106** Gut Bacterial Populations in Multiple Sclerosis and in Health *Ellen Mowry, Emmanuelle Waubant, Christel Chehoud, Todd DeSantis, Justin Kuczynski, Janet Warrington*

**P05.107** TLR2 Mediated CD39+Treg Induction by a Human Gut Commensal Antigen Protects EAE Mice and Restores Impaired Treg Function in Man *Lloyd Kasper, Javier Ochoa-Reparaz, Yan Wang, Kiel Telesford, Sakhina Begum-Haque, Daniel Mielcarz*

**P05.108** Could Inflammatory Bowel Disease Regulate Multiple Sclerosis Course? *Simon Olivier, Helene Zephir, Julia Salleron, Corinne Gower-Rousseau, Marc Debouverie, Christine Lebrun, Emmanuelle Lepage, Caroline Papeix, Camu William, Vigneron Benoit, Antoine Cortot, Jean-Frédéric Colombel, Vermersch Patrick*

### Multiple Sclerosis: Animal Models

**P05.109** Magnetic Resonance Imaging (MRI) Characterization of the Therapeutic Effect of Glatiramer Acetate in Different Models of Experimental Autoimmune Encephalomyelitis (EAE) *Rina Aharoni, Efrat Sason, Michael Sela, Ruth Arnon*

**P05.110** Latent Herpes Simplex Virus Type 1 (HSV-1) in the Central Nervous System (CNS) of Immune Competent Mice Reactivates Spontaneously *Lorne Kastrukoff, Allan Lau, Eva Thomas*

**P05.111** The Regulatory Function of B Cells in Protection Against EAE by a Human Commensal Bacteria Polysaccharide *Yan Wang, Kiel Telesford, Javier Ochoa-Reparaz, Sakhina Haque-Begum, Daniel Mielcarz, Dennis Kasper, Lloyd Kasper*

**P05.112** Attenuation of Microglial Activation Protects Hippocampal Synapses in Experimental Autoimmune Encephalomyelitis *Matthew Bellizzi, Harris Gelbard*

**P05.113** Curdlan, a Th17 Cell Inducer, Plays Contrasting Roles in a Viral Model for Multiple Sclerosis *Fumitaka Sato, Nicholas Martinez, Seiichi Omura, Steve Alexander, Alireza Minagar, Ikuo Tsunoda*

**P05.114** MK2-Deficiency Fails to Protect Mice from Experimental Autoimmune Encephalomyelitis *Silvia Tietz, Maxime Viard, Tobias Thomas, Matthias Gaestel, Martin Berghoff*

**P05.115** Ingested (Oral) TRH and Neuropeptide Y Inhibit Acute EAE *Staley Brod, Victoria Bauer*

**P05.116** RNS60, a Novel Therapeutic, Modifies T-Helper Cells and Inhibits Experimental Allergic Encephalomyelitis: Implications for Treating Multiple Sclerosis *Susanta Mondal, Supurna Ghosh, Richard Watson, Kalipada Pahan*

**P05.117** Activity of an Anti-Murine CD52 Antibody in Experimental Autoimmune Encephalomyelitis *Michael Turner, Nathalie Chretien, Evis Havari, Michael LaMorte, Bruce Roberts, Johanne Kaplan, William Siders*

**P05.118** T Cell Epitope 119-132, but Not 35-55, Is the Immunodominant Encephalitogenic Determinant of the CNS Autoantigen, Myelin Oligodendrocyte Glycoprotein *Aparna Shetty, Sheena Gupta, Martin Weber, Nicolas Molnarfi, Thomas Forsthuber, Raymond Sobel, Claude Bernard, Anthony Slavin, Scott Zamvil*

### Multiple Sclerosis: Genetics: CCSVI

**P05.119** HDLS: Due to CSF1R Gene Mutation; Clinical Characteristics *Christina Sundal, Jay Van Gerpen, Shinsuke Fujioka, Jan Aasly, Christian Wider, Sigrun Roeber, Elizabeth Shuster, Bernardino Ghetti, James Garbern, Alexandros Tselis, Russell Swerdlow, Rosa Rademakers, Dennis Dickson, Daniel Broderick, Zbigniew Wszolek*

**P05.120** HLA Genotype in Patients with Neuromyelitis Optica *Claudia Kay, Rosana Scola, Paulo Lorenzoni, Raquel Arndt, Lineu Wemeck*

**P05.121** Investigation of the Effect of Human Leukocyte Antigen on the Development of Neutralizing Antibodies in Interferon-beta Treated Patients with Multiple Sclerosis *Katharina Fink, Malin Lundkvist, Jenny Link, Ingrid Kockum, Christina Hermanrud, Boel Brynedal, Jan Hillert, Anna Fogdell-Hahn*

**P05.122** Distinct Genetic and Infectious Profiles between Multiple Sclerosis and Neuromyelitis Optica in Japanese Patients *Satoshi Yoshimura, Tomomi Yonekawa, Noriko Isobe, Katsuhisa Masaki, Shinya Satou, Takuya Matsushita, Jun-ichi Kira*

**P05.123** The Genetic Basis of Complex Human Disease: Extending the Utility of Twin Studies *Douglas Goodin*

**P05.124** Is Venous Stenosis Associated with Iron Deposition in the Brain? Preliminary Results of a Study of MR Venography and Susceptibility-Weighted Imaging *Alexander Rae-Grant, Michael Phillips, Stephen Jones, Claudiu Diaconu, Sneha Ramesh, Robert Fox*

**P05.125** A Pathologic Evaluation of Chronic Cerebrospinal Venous Insufficiency (CCSVI) *Claudiu Diaconu, Susan Staugaitis, Jennifer McBride, Cynthia Schwanger, Alexander Rae-Grant, Robert Fox*

**P05.126** A Systematic Review of the Association between Chronic Cerebrospinal Venous Insufficiency and Multiple Sclerosis *Jodie Burton, Andreas Laupacis, Erin Lillie, Andrew Dueck, Sharon Straus, Laure Perrier, Richard Aviv, Kevin Thorpe, Thomas Feasby, Julian Spears*

**P05.127** Risk Factors for Chronic Cerebrospinal Venous Insufficiency (CCSVI) *Kresimir Dolic, Bianca Weinstock-Guttman, Karen Marr, Vesela Valnarov, Ellen Carl, Jesper Hagemeyer, Christina Brooks, Colleen Kilanowski, Murali Ramanathan, Robert Zvadnov*

**P05.128** A Randomized, Controlled Trial of an Educational Intervention for MS Patients Concerning CCSVI *Dalia Rotstein, Michael Evans, Marika Hohol, Paul O'Connor*

**P05.129** A Genetic Model Predicts the Response to Glatiramer Acetate in Two Different Cohorts *Fabio Macchiardi, Jeffrey Cohen, Manuel Comabella Lopez, Giancarlo Comi, Gary Cutter, Massimo Filippi, Joseph Levy, Fred Lublin, Xavier Montalban, Jorge Oksenberg, Amir Tchelet, Sagit Weiss, Jerry Wolinsky*

**P05.130** The HLA-DRB1 Locus Influences Spinal Cord Pathology in Multiple Sclerosis *Gabriele De Luca, Jenny Martin, Shannon Bird, George Ebers, Margaret Esiri*

### Child Neurology/Developmental Neurobiology: Genetics

**P05.131** Primary Cilium, NPC1 and Patched1 Proteins in Niemann-Pick Type C Disease *Elena Radi, Carla Battisti, Margherita De Santi, Patrizia Formichi, Benedetta Rossi, Sergio Tripodi, Emelinda Tarquini, Antonio Federico*

**P05.132** Glut1 Deficiency Syndrome – An Emerging Realization of Protean Phenotypes *Dong Wang, Hong Yang, Kristin Engelstad, Xinhua Bao, Darryl De Vivo*

**P05.133** Neurotransmitter Abnormalities and Response to L-Dopa in SPG11 *Adeline Vanderver, Davide Tonduti, Pierre Lebon, Nenad Blau, Johanna Loewenstein, William Gahl, Camilo Toro, Keith Hyland*

**P05.134** Neopterin and Tetrahydrobiopterin Cerebrospinal Fluid Elevations in Aicardi Goutieres Syndrome: Confirmation of Findings in Mutation Confirmed Subjects *Davide Tonduti, Adeline Vanderver, Ivana Olivieri, Johanna Loewenstein, Elisa Fazzi, Roberta La Piana, Simona Orcesi*

**P05.135** Severe Infantile Encephalomyopathy and Defective Mitochondrial Translation Due to a New Molecular Defect *Catarina Quinzii, Mario Barros, Simone Sanna-Cherchi, Valentina Emmanuele, Beatriz Lopez Garcia, Asan Akman, Rita Horvath, Claudia Ferreiro-Barros, Nader El Gharaby, Darryl De Vivo, Aly Shokr, Michio Hirano*

**P05.136** Recessive Mutations in *POLR3B* Encoding the Second Largest Subunit of Pol III Cause a Rare Hypomyelinating Leukodystrophy *Martine Tetreault, Karine Choquet, Simona Orcesi, Davide Tonduti, Umberto Ballotin, Martin Teichmann, Sebastien Fribourg, Raphael Schiffmann, Bernard Brais, Adeline Vanderver, Genevieve Bernard*

**P05.137** Pol III-Related Leukodystrophies: Dystonia as a New Clinical Feature *Bradley Osterman, Simona Orcesi, Michel Sylvain, Guillaume Sebire, Serge Melancon, Sylvain Chouinard, Adeline Vanderver, Genevieve Bernard*

**P05.138** Spectrum of Pediatric Collagen 6 Myopathies *Megha Dhamne, Shannon DiCarlo, Adekunle Adesina, Timothy Lotze*

**P05.139** MitoExome Sequencing Reveals a Mutation in the Mitochondrial MRPL51 Gene Causing Infantile Encephalopathy *Caterina Garone, Sarah Calvo, Valentina Emmanuele, Orhan H. Akman, Paige Kaplan, Sindu Krishna, Vamsi Mootha, Salvatore DiMauro, Michio Hirano*

**P05.140** Developmental Delay and Cerebral Malformation Associated with Chromosome 1q44 Deletions *Francois Bolduc*

### Peripheral Nerve: Genetics

**P05.141** Two Novel Mutations in ABHD12 Expand the Mutation Spectrum in PHARC *Dong-Hui Chen, Marie Davis, Heather Mefford, Youngmee Sul, Alipi Naydenov, A. Samuel Barloon, John Wolff, Mark Matsushita, Corinne Smith, Nephi Stella, Wendy Raskind, Thomas Bird*

**P05.142** Validation of the Charcot-Marie-Tooth Pediatric Scale as an Outcome Measure of Disability *Michael Shy, Robert Ouvrier, Tim Estilow, Matilde Laura, Julie Pallant, Monkol Lek, Emanuela Pagliano, Isabella Moroni, Rosemary Shy, Mary Reilly, Davide Pareyson, Francesco Muntoni, Richard Finkel, Joshua Burns*

**P05.143** Exome Sequencing Identifies a New Locus for DI-CMT *Carly Siskind, Fiorella Speziani, Michael Gonzalez, Susan Blanton, Michael Shy, Stephan Zuchner*

**P05.144** Update – Inherited Neuropathies Consortium *Carly Siskind, Shawna Feely, Joshua Burns, Stephan Zuchner, Davide Pareyson, David Hermann, Steven Scherer, Thomas Bird, Thomas Lloyd, Charlotte Sumner, Sarah Croker, Jeffrey Krischer, Francesco Muntoni, Richard Finkel, Stephanie Neal, Mary Reilly, Michael Shy*

**P05.145** Two Novel *GDAP1* Mutations with Intermediate Type Autosomal Recessive Charcot-Marie-Tooth Neuropathy *Hwa Kyung Chung*

## Poster Session V

- P05.146** FISH Analysis of Chromosome 22 from Peripheral Nerve Biopsies of Intraneural Perineurioma *Michelle Mauermann, Christopher Klein, Peter Dyck, JaNean Engelstad, Heather Flynn Gilmer, Robert Jenkins, P. James B. Dyck*
- P05.147** Predictors of Charcot-Marie-Tooth Disease in Patients with Pes Cavus Deformities *Ioannis Karakis, Peter Kang, Basil Darras, H. Jones*
- P05.148** MPZ Mutation in an Early-Onset Charcot-Marie-Tooth Disease Type 1B Family by Genome-Wide Linkage Analysis *Jae Won Hyun*
- P05.149** Charcot Marie Tooth Disease – Autosomal Recessive Forms: Clinical, Electrophysiology and Genetic Study in a Tunisian Cohort *Imen Kacem, Amina Gargouri, Mouna Ben Djebara, Yosr Hizem, Riadh Gouider, Eric Leguern*
- P05.150** Epidemiology of Charcot-Marie-Tooth in Lebanon: Clinical, Genetic and Electrophysiological Correlation *Rosette Jabbour, Salam Koussa, Valerie Delague, Andre Megarbane, Mounir Khoury, Samir Atweh*
- Peripheral Nerve: Basic Science**
- P05.151** Cytokine Multiplex Testing in Clinical Evaluation of Peripheral Neuropathies *Christopher Klein, Juan Figueroa, Melissa Snyder, Sandra Bryant, Joseph Balsanek, P. James B. Dyck, Peter Dyck, Nathan Staff, Wolfgang Singer, Phillip Low, Paola Sandroni, Michelle Mauermann, Jennifer Tracy*
- P05.152** Degeneration and Regeneration of Peripheral Motor Axons Is Impaired in Mice Heterozygously Deficient for the Myelin Protein P<sub>0</sub> Gene *Christian Krarup, Mette Rosberg, Jonas Vikeså, Finn Cilius Nielsen, Mihai Moldovan*
- P05.153** Immune Complex-Induced Inflammation as a Mechanism of Inhibition of Peripheral Nerve Regeneration *Kazim Sheikh, Gang Zhang, Nataliia Bogdanova, Tong Gao, Lixia Guo, Cynthia Massaad, Manisha Kotha*
- P05.154** Upregulation of Inflammatory Cytokines in Painful Diabetic Neuropathy *Ben Illigens, Roy Freeman, Christopher Gibbons*
- P05.155** Regulatory T Cells Determine Disease Severity in Experimental Autoimmune Neuropathies *Gerd Meyer Zu Horste, Steffen Cordes, Anne Mausberg, Hans Hartung, Bernd Kieseier*
- P05.156** Anti-Ganglioside Antibodies Induce Neuropathy Via Fcγ Receptors in Mice *Lan He, Gang Zhang, Kazim Sheikh*
- P05.157** Demyelination as an Early Pathophysiological Feature in CMT4J *Qing Yan, Colin Martyn, Lindsey Miller, Michael Shy, Jun Li*
- P05.158** RAGE-Dependent Signaling in Peripheral Neurons and Macrophages Regulates Peripheral Nerve Repair *Lingling Rong, Shifang Yan, Arthur Hays, Clifton Gooch, Ann Marie Schmidt*
- P05.159** Search for Nodal and Paranodal Autoantibodies in Chronic Inflammatory Demyelinating Polyradiculoneuropathy (CIDP) *Pantelis Pavlakis, Haralambos Alexopoulos, Domna Karagogeos, Marinos Dalakas*
- P05.160** Isaac Disease: Does the Clinical Spectrum Include White Matter Disease in the Brain? *Mary Sedarous, Dale Lange*
- Anterior Horn: Basic Science**
- P05.161** C9ORF72 in a Large Series of Italian and Sardinian Familial and Sporadic ALS Patients *Adriano Chio, Giuseppe Borghero, Mario Sabatelli, Massimo Corbo, Gabriele Mora, Fabio Giannini, Francesca Conforti, Silvana Penco, Andrea Calvo, Maura Pugliatti, Alessandra Sotgiu, Giancarlo Logroscino, Bryan Traynor, Alan Renton, Elisa Majounie, Giuseppe Lauria, Claudia Caponnetto, Jessica Mandrioli, Fabrizio Salvi, Paolo Volanti, Vincenzo La Bella, Maria Monsurro, Marcella Zollino, Irene Ossola, Maura Brunetti, Gabriella Restagno*
- P05.162** C9ORF72 Hexanucleotide Repeat Expansion in a Cohort of Italian Patients Affected by Amyotrophic Lateral Sclerosis with and without Frontotemporal Dementia *Roberto Del Bo, Stefania Corti, Giulietta Riboldi, Michela Ranieri, Chiara Fenoglio, Daniela Galimberti, Elio Scarpini, Nereo Bresolin, Giacomo Comi*
- P05.163** Comprehensive Screening of Known ALS Genes in a Large ALS Cohort Using Pooled-Sample Sequencing *Matthew Harms, Janet Cady, Peggy Allred, Taha Bali, Ryan Thomas Libby, Alan Pestronk, John Ravits, Robert Baloh*
- P05.164** Autophagy Is Impaired by UBQLN2 Mutations Linked to ALS/FTD *Faisal Fecto, Y. Taylan Esengul, Han-Xiang Deng, Teepu Siddique*
- P05.165** Mutant UBQLN2 Transgenic Mice Recapitulate Behavioral, Pathological and Neurophysiological Characteristics of Human Ubiquilinopathy *Faisal Fecto, George Gorrie, Hong Zhai, Daniel Radzicki, Ronggen Fu, Erdong Liu, Craig Weiss, Marco Martina, John Disterhoft, Enrico Mugnaini, Teepu Siddique, Han-Xiang Deng*
- P05.166** Analysis of 100 HSP Exomes and Characterization of Mutations in Known Autosomal Dominant Genes *Rebecca Schuele, Michael Gonzalez, Eric Powell, Sven Klimpe, Stephan Klebe, Susanne Otto, Thomas Klopstock, Fiorella Speziani, Peter Young, Ludger Schoels, Stephan Zuchner*
- P05.167** Identification of a Unique miRNA Signature in CD14<sup>+</sup>/CD16<sup>+</sup> Blood-Monocytes in ALS Subjects Identical to That Observed in SOD Mice *Oleg Butovsky, Shafiuddin Siddiqui, Galina Gabrieli, Amanda Lanser, Ben Dake, Murugaiyan Gopal, Camille Doykan, Pauline Wu, Robert Lawson, James Berry, Anna Krichevsky, Merit Cudkowicz, Howard Weiner*
- P05.168** Microarray Analysis in Spinal Cords of Sporadic ALS Patients with Cell-Type Specific Transcriptome *Hirofumi Yamashita, Noriko Fujimori, Hidefumi Ito, Yohei Iguchi, Naoki Atsuta, Fumiaki Tanaka, Gen Sobue, Ryosuke Takahashi, Koji Yamanaka*
- P05.169** The Fast Skeletal Troponin Activator, CK-2017357, Increases Muscle Function and Survival in SOD1 (G93A) Mice; a Model of ALS *Fady Malik, Alan Russell, Malar Pannirselvam, Aaron Hinken, Karen Thomsen, Alisha Ardiana, Guillermo Godinez, Zhiheng Jia, Khalil Saikali, Michael Chen, David Morgans, Jeffrey Jasper*
- P05.170** Expression and Cellular Localization of the Classical Progesterone Receptor (PR) in the Spinal Cord of Control Subjects and Amyotrophic Lateral Sclerosis (ALS) Patients *Gisella Gargiulo Monachelli, Danae Campos-Melo, Cristian Drollmann, Brian Keller, Alejandro De Nicola, Maria Claudia Gonzalez Deniselle, Kathryn Volkening, Michael Strong*
- Myasthenia Gravis**
- P05.171** Do Clinical Characteristics Predict Response to Mycophenolate Mofetil in Myasthenia Gravis? *Lisa Hobson-Webb, Vern Juel, Jeff Guptill, Janice Massey, Donald Sanders*
- P05.172** Can Mycophenolate Mofetil Be Successfully Tapered in Myasthenia Gravis? *Lisa Hobson-Webb, Vern Juel, Jeff Guptill, Janice Massey, Donald Sanders*
- P05.173** Minimum Clinically Important Differences in Patients with Myasthenia Gravis *Hans Katzberg, Carolina Barnett Tapia, Ingemar Merckies, Vera Brill*
- P05.174** Psychometric Evaluation of Quality of Life (QoL) and Disease Severity Outcome Measures in Myasthenia Gravis (MG) Using Rasch Analysis *Ted Burns, Reza Sadjadi, Mark Conaway, Gary Cutter, Donald Sanders*
- P05.175** Clinical and Demographical Findings of MuSK Myasthenia Gravis in Argentina *Marcelo Rugiero, Mariela Bettini, Valeria Lujan Salutto, Hernan Gomez, Laura Pirra, Juan Politei, Alberto Dubrovsky, Ricardo Reisin, Martin Noguees, Claudio Mazia*
- P05.176** Epidemiology of Myasthenia Gravis in Northwest of Argentina: A Pilot Study *Claudio Mazia, Mario Melcon, Valeria Lujan Salutto*
- P05.177** Three Cases of Muscle-Specific-Kinase Antibody-Positive Juvenile Myasthenia Gravis: Presentation, Clinical Course and Response to Treatment *Carey Taute, Neil Friedman*
- P05.178** Outcomes after Thymectomy in Children with Juvenile Myasthenia Gravis *Carey Taute, Neil Friedman*
- P05.179** Image Separation of 1 mm at 2 Minute Sustained Lateral Gaze: The Most Characteristic Bedside Diagnostic Feature for Ocular Myasthenia Gravis: A Review of 65 Cases of Diplopia Referral *Shi Lim, Venkateswara Neelam, Niranjan Singh*
- P05.180** Demographic and Clinical Features of Ocular Myasthenia Gravis and Identification of Prognostic Factors: A Retrospective Study *Niranjan Singh, Venkateswara Neelam, Shi Lim*
- Myotonic Disorders**
- P05.181** Clinical and Molecular Characterization of Non-Dystrophic Myotonia *Jaya Trivedi, Brian Bundy, Dipa Raja Rayan, Mohammad Salajegheh, Jeffrey Statland, Shannon Venance, Yunxia Wang, Doreen Fialho, Kimberly Hart, Nina Gorham, Laura Herbelin, Anthony Amato, Michael Hanna, Robert Griggs, Richard Barohn*
- P05.182** A Novel SCN4A Mutation Associated with Distal Myotonia and Bilateral Foot Drop *Shamaelah Javed, Jin Li*
- P05.183** Seronegative Neuromyotonia and Congenital Hyperinsulinism with Mutation of the Inwardly Rectifying Potassium Channel (KCNUJ1) *Dinah Thyerlei, John Oakley, Suman Jayadev, Michael Weiss*
- P05.184** Symptoms of Myotonia as Reported by Patients with Myotonic Dystrophy Type 1: Location, Description and Severity- Implications for Clinical Trials *Shree Pandya, Katy Eichinger, Nuran Dilek, Jeanne Dekdebrun, William Martens, Chad Heatwole, Charles Thornton, Richard Moxley*
- P05.185** Correlation between Biomarkers and Surrogate Markers in Patients with Myotonic Dystrophy Type 1 (DM-1): Data from the Study of Pathogenesis and Progression in DM (STOPP DM) *Shree Pandya, Katy Eichinger, Nuran Dilek, Jeanne Dekdebrun, William Martens, Chad Heatwole, Charles Thornton, Richard Moxley*
- P05.186** Identifying High Impact Symptoms and Issues in Congenital and Juvenile Myotonic Dystrophy *Nicholas Johnson, Elizabeth Luebbe, Eileen Eastwood, Nancy Chin, Richard Moxley, Chad Heatwole*

## Poster Session V

**P05.187** Relationships between Upper Extremity Strength and the Purdue Pegboard Test and the Jebsen-Taylor Hand Function Test in Patients with Myotonic Dystrophy Type 1 *Katy Eichinger, Nuran Dilek, Jeanne Dekdebrun, William Martens, Chad Heatwole, Charles Thornton, Richard Moxley, Shree Pandya*

**P05.188** Video Hand Opening Time (vHOT) in Myotonic Dystrophy Type 1 (DM1) *Araya Puwanant, Jeffrey Statland, Nuran Dilek, Richard Moxley, Charles Thornton*

**P05.189** Application of Digital Accelerometry for Swallow Imaging (DASI) for Dysphagia Evaluation and Treatment in a Series of Myotonic Dystrophy Type 1 (DM1) Patients *Lia-Ana Farkas, Lane Entreklin, Norma Milstead, Kristin Mosman, Kiera Berggren, Jacinda Sampson*

**P05.190** Is There a Difference in Gastric Emptying between Myotonic Dystrophy Patients with and without Gastrointestinal Symptoms? An Analysis Using the <sup>13</sup>C-Acetate Breath Test *Yuji Tanaka, Tomohiro Kato, Hiroshi Nishida, Megumi Yamada, Akihiro Koumura, Takeo Sakurai, Akio Kimura, Isao Hozumi, Hisataka Moriwaki, Takashi Inuzuka*

### Autonomic Disorders: Syndromes Genetic and Sundry

**P05.191** Spectral Analysis of Heart Rate Variability in SCA 3 *Karen Takazaki, Anelyssa D'Abreu, Iscia Lopes-Cendes, Anamarli Nucci, Marcondes Franca, Jr*

**P05.192** Autonomic Dysfunction Related to Triple A Syndrome: Exploring the Fourth A *Justin Jordan, Jade Schiffman, Steven Vermino, Jaya Trivedi*

**P05.193** An Irish Patient with a Rare Leukodystrophy Related to Lamin B1 Duplication *Anna Molloy, Orla Cotter, Brian Sweeney*

**P05.194** Novel SPG10 Mutation Associated with Hereditary Spastic Paraplegia and Dysautonomia *Nicolas Collongues, Christel Depienne, Nelly Boehm, Andoni Echaniz-Laguna, Beatrice Samama, Alexandra Durr, Giovanni Stevanin, Eric Leguern, Alexis Brice, Pierre Labauge, Jerome De Seze*

**P05.195** Alpha Synuclein as a Cutaneous Biomarker of Parkinson Disease *Ningshan Wang, Christopher Gibbons, Jacob Lafo, Roy Freeman*

**P05.196** Loss of Heart Rate Variability in Parkinson's Disease Shown by the Poincaré Plots during Rhythmic Breathing *Bruno Estanol, Guillermo Delgado, Nancy Bertado, Cesar Callejas, Zaira Medina, Oscar Infante, Claudia Lerma*

**P05.197** The Quantitative Pilomotor Axon-Reflex Test (QPART) – A Technique To Assess Autonomic Nerve Fiber Function *Timo Siepmann, Ben Illigens, Christopher Gibbons, Roy Freeman*

**P05.198** Role of Vitamin D on Gastric Motility in Patients with Gastroparesis from Inflammatory Enteric Neuropathy *Archana Kedar, V. Vedanarayanan, Yana Nikitina, Michael Griswold, Thomas Abell*

**P05.199** Improving the Quality of Autonomic Consultations through Voice Recognition Dictation Technology *William Cheshire*

**P05.200** Valsalva Maneuver Identifies Subtle Sympathetic Cardiac Dysfunction in Patients with Mild Traumatic Brain Injury *Max Hilz, Sebastian Moeller, Fabian Ammon, Joerg Markus, Steven Flanagan, Phillip De Fina, Stefan Schwab, Julia Koehn*

**P05.201** Fit for Duty: Autonomic Nervous System Dysfunction in US Service Members *Michael Crimmins, Mill Etienne*

**P05.202** Association between Serum 25 (OH) Vitamin D3 Concentrations and Severity of Disease in Iranian Patients with Multiple Sclerosis *Hosein Pakdaman, Ali Amini Harandi, Koroush Gharagozli, Seyed Kazem Hosseini*

### Autonomic Disorders: Orthostatic and Autoimmune Disorders

**P05.203** The Pathophysiology of Neuropathic and Non-Neuropathic Postural Tachycardia Syndrome *Christopher Gibbons, Istvan Bonyhay, Adam Benson, Roy Freeman*

**P05.204** 3, 4 Diaminopyridine – A Promising Novel Treatment Approach to Orthostatic Hypotension *Wolfgang Singer, Tonette Gehring, Jade Gehring, David Sletten, Juan Figueroa, Paola Sandroni, Phillip Low*

**P05.205** Pediatric Postural Tachycardia Syndrome (POTS): A Children's Hospital Experience *Adriana Hernandez, Laila Jarjour, Imad Jarjour*

**P05.206** Sleep Disturbances in Postural Orthostatic Tachycardia Syndrome (POTS): A Polysomnographic and Questionnaires Based Study *Carl-Albrecht Haensch, Julia Mallien, Stefan Isenmann*

**P05.207** Coat-Hanger Ache of Orthostatic Hypotension? *Ramesh Khurana*

**P05.208** Objective and Symptomatic Reversal of Autoimmune Gastrointestinal Dysmotility with Immunotherapy *Eoin Flanagan, Yuri Saito, Vanda Lennon, Robert Fealey, Sean Pittock*

**P05.209** Autoimmune Autonomic Ganglionopathy Associated with Voltage-Gated Potassium Channel Antibodies *Wolfgang Singer, Christopher Klein, Andrew McKeon, Phillip Low*

**P05.210** Long-Term Outcomes in Autoimmune Autonomic Ganglionopathy *Elaine Boydston, Srikanth Muppidi, Steven Vermino*

**P05.211** Rasmussen Encephalitis Followed by Other Autoimmune Disorders: Comorbidity or Chance Association? *Dina Amrom*

**P05.212** Increasing Awareness in the Diagnosis and Treatment of NMDA Encephalitis *Reuben Valenzuela, Christopher Zallek, Hrachya Nersesyan, Jorge Kattah, Gregory Blume, Paayal Patel, John Pula*

### Epidemiology and Clinical Features of Cerebrovascular Disease

**P05.213** Is There a Diffusion Lesion Volume That Identifies Acute Ischemic Patients in Whom Endovascular Reperfusion Therapy Would Be Futile? *Michael Ho, Qing Hao, David Liebeskind, Sidney Starkman, Latisha Ali, Reza Jahan, Gary Duckwiler, Fernando Vinuela, Satoshi Tateshima, Paul Vespa, Noriko Salamon, Jeffrey Saver*

**P05.214** Interventional Therapy for Acute Ischemic Stroke Is Associated with Poor Outcomes *Jennifer Simpson, Horia Marin, Patricia Penstone, Panayiotis Mitsias*

**P05.215** Thrombolysis in Acute Ischemic Stroke: The Barriers and Delays: A Study from South India *Deepak Kurhade, Jagarlapudi Murthy*

**P05.216** Brain Magnetic Resonance Imaging Differences in Patients with Wake-Up Stroke *Jorge Kawano, Gulmohar Roy, Branko Huisa-Garate*

**P05.217** Delayed Postangiographic Contrast Enhancement in Acute Stroke after t-PA Administration Mimicking Intracranial Hemorrhage *Gabor Toth, Jonathan Beary, Susan Samuel, Ken Uchino, Muhammad Hussain*

**P05.218** Small but Consequential: A Case of Deep Intracerebral Hemorrhage (ICH) Caused by Distal Lenticulostriate Artery Aneurysm *Xuemei Cai, Steve Han, Sherry Chou*

**P05.219** "Doctor, Why Are You Turning Purple?" A Case Report of Neurologic Dysfunction Associated with Acute Systemic Babesiosis Infection *Neetu Dhadwal, Varun Chahal, Brij Ahluwalia-Singh*

**P05.220** Limb Shaking and Orbital Bruit: Uncommon Manifestations of Severe Carotid Occlusive Disease *Neha Morparia*

**P05.221** Coagulopathy as a Determinant of Initial and 24 Hour Hematoma Volume in Intracerebral Hemorrhage *Khaled Asi, Deepa Malaiyandi, Pramod Gupta, Asima Husain, Dhruvil Pandya, John Lynch*

**P05.222** Comparison of Risk Factors between First Ischemic Stroke and Myocardial Infarction at a Medical Center in Buenos Aires City, Argentina *Emilia Gatto, Ines Ballarino, Gabriel Persi, Sabrina Antongiovanni, Matías Failo, Virginia Parisi*

### Health Care Delivery to Patients with Cerebrovascular Disease

**P05.223** Remote Assessment of Stroke Using the iPhone 4 *Eric Anderson, Bryan Smith, Moges Ido, Michael Frankel*

**P05.224** Cost-Minimization Analysis of CT vs. MRI in the Evaluation of Patients with Transient Ischemic Attacks at a Large Academic Center *Evgeny Sidorov, Matthew Reynolds, Wayne Feng, Magdy Selim*

**P05.225** Speed and Appropriateness of Thrombolysis Decisions in a General Hospital Using Emergency Department (ED) Physicians and Telemedicine Support *David Collas, Ian Frankel*

**P05.226** Efficiency and Outcome of after Hours IV Thrombolysis in a Statewide Telestroke Network *Shadi Yaghi, Archana Hinduja, Nicolas Bianchi, Shuja Rayaz, Salah Keyrouz*

**P05.227** Is It Possible To Provide Stroke Care with Lower Cost, a Cost Analysis of In-Hospital Care of Patients Received TPA *David Wang, Deepak Nair, Jan Jahnel, Clayton McNeil, Rachel Wang, Judith Beck, Robyn Alanis, Arun Talkad*

**P05.228** Early Experience with Community Implementation of Thrombolysis Three to 4.5 Hours after Acute Ischemic Stroke *Mathew Alias, Ilene Staff, Louise McCullough*

**P05.229** Predictors of Admissions in Patients Presenting to Emergency Department with Transient Ischemic Attacks in United States – A National Survey *Nauman Tariq, Saqib Chaudhry, Asher Rizvi, Muhammad Suri, Gustavo Rodriguez, Adnan Qureshi*

**P05.230** Hospital Features Affect Resource Utilization: The Michigan Stroke Network Experience *Ramesh Madhavan, Pratik Bhattacharya, Andrew Xavier, Sandra Narayanan, Kumar Rajamani, Sunitha Santhakumar, Gregory Norris, William Coplin, Connie Parliament, Seemant Chaturvedi*

**P05.231** Time to Presentation after Acute Stroke: Effect on Outcome *Alex Nappi, Christian Weaver, Aakash Bodhit, Heather Applewhite, Tammy Ju, Vishunmurthy Hedna, Michael Waters, Latha Stead*

**P05.232** Outcomes of "Drip-and-Ship" Paradigm among Patients with Acute Ischemic Stroke. Results of a State Wide Study *Gustavo Rodriguez, Saqib Chaudhry, M. Fareed Suri, Adnan Qureshi*



## Poster Session V

**Biomarkers and Clinical Aspects of Cerebrovascular Disease**

**P05.233** Prediction of Cardioembolic, Arterial and Lacunar Causes of Cryptogenic Stroke by Gene Expression Profiles and Infarct Location *Glen Jickling, Boryana Stamova, Bradley Ander, Xinhua Zhan, Shara-Mae Sison, Piero Verro, Frank Sharp*

**P05.234** Relationships between Plasma Homocysteine Level and Cervicocerebral Atherosclerosis and Microangiopathy in Non-Stroke Individuals *Seung-Hun Oh, So-Young Park, Nam-Keun Kim, Se-A. An, Han-Bin Lee, Ok-Joon Kim*

**P05.235** Angiotensin-1 as a Candidate Molecule for Vasoprotection Against Hemorrhagic Transformation after Treatment with Tissue Plasminogen Activator *Kunio Kawamira, Hironaka Igarashi, Masato Kanazawa, Tetsuya Takahashi, Tsutomu Nakada, Masatoyo Nishizawa, Takayoshi Shimohata*

**P05.236** A Population Based Estimates of Neuro-Endovascular Procedures: Results of a State Wide Study *Shahram Majidi, Mikayel Grigoryan, Saqib Chaudhry, Gustavo Rodriguez, M. Fareed Suri, Adnan Qureshi*

**P05.237** Intracranial Atherosclerotic Plaques Analysis with Virtual Histology Intravascular Ultrasound: Correlation with Angiographic and Histopathological Findings *Shahram Majidi, Ameer Hassan, Masaki Watanabe, Saqib Chaudhry, M. Fareed Suri, Adnan Qureshi*

**P05.238** Plasma Matrix Metalloproteinase-9 after Acute Ischemic Stroke Predict Recurrent Stroke *Shufen Chen, Ran An, Qiang Dong*

**P05.239** Inflammatory Markers in Different Stroke Subtypes *Maria Zuru, Laura Brescacin, Claudia Alonzo, Victor Villarreal, Gabriela Orzuza, Rocio Martinez, Silvina Brienza, Fabiana Ortega, Gabriel Waisman, Luis Camera, Edgardo Cristiano*

**P05.240** Differentiating Acute from Chronic Carotid Occlusion in Ischemic Stroke within 8 Hours of Onset: Relevance for Mechanical Thrombectomy *D. M. D. Nadika Wijesoma, Hoe Chin Chua, Yih Yian Sitoh*

**P05.241** Transient Ischemic Attack Presenting as Alien Hand Syndrome *Anthony Vaughn, Tania Reyna, Aaron Farrow, Calin Prodan*

**P05.242** Recurrent Stroke as a Presenting Symptom of HIV-Associated Moyamoya Syndrome: Case Report *Khalid Alqadi, Zurab Nadareishvili, Devanshi Jadhav, Kathleen Burger, Ahmad Khaldi, Michelle Feinberg*

**Interventional Neurology I**

**P05.243** Cost-Effectiveness of Hub-and-Spoke Telestroke Networks for the Management of Acute Ischemic Stroke *Jeffrey Switzer, Bart Demaerschalk, Jipan Xie, Liangyi Fan, Kathleen Villa, Eric Wu*

**P05.244** Cost-Utility Analysis of Hub-and-Spoke Telestroke Networks for the Management of Acute Ischemic Stroke from a Societal Perspective *Bart Demaerschalk, Jeffrey Switzer, Jipan Xie, Liangyi Fan, Kathleen Villa, Eric Wu*

**P05.245** Calculation of Infarct-Penumbra Mismatch on CT Perfusion Imaging Using the ABC/2 Method *Kris French, Jana Wold, Julie Martinez, Robert Hoesch*

**P05.246** A Systematic Review of Teleneurology *Eric Anderson, Gregory Esper*

**P05.247** Differences in Admitting Hospital Characteristics for African American and White Patients with Acute Ischemic Stroke Patients in United States *Ameer Hassan, Saqib Chaudhry, Fareed Suri, Adnan Qureshi*

**P05.248** Lower Rates of IV Thrombolysis for Acute Stroke Is Due to Fewer Eligible Patients in Minorities *Kyle Nakatsuka, Jessica Lee, Timea Hodics*

**P05.249** Appropriateness of Patent Foramen Ovale Closures: The Neurologist's Perspective *Pratik Bhattacharya, Amit Kansara, Ambooj Tiwari, Mahmoud Rayes, Kumar Rajamani, Ramesh Madhavan, Sunitha Santhakumar, Seemant Chaturvedi*

**P05.250** Intraarterial Thrombolysis Should Not Be Delayed To Assess Response to Intravenous Thrombolysis in Acute Ischemic Large Vessel Related Stroke *Majaz Moonis, Swaraj Singh*

**P05.251** Endovascular Treatment of Middle Cerebral Artery Aneurysm: Single Center Case Series *Dhruvil Pandya, Marc Lazzaro, Brian-Fred Fitzsimmons, John Lynch, Osama Zaidat*

**P05.252** Outcomes of Patients Undergoing Endovascular Treatment for Mycotic Intracranial Aneurysms *Mohammad Afzal, Ameer Hassan, Saqib Chaudhry, Shahram Majidi, Muhammad Suri, Adnan Qureshi*

**P05.253** Heparin during Diagnostic Cerebral Angiography, Is It Safe? *Jacob Kitchner, Alshekhlee Amer, Ritesh Kaushal, Kirk Bienemann, R. Charles Callison, Nirav Vora, Randall Edgell*

**P05.254** Use of Vascular Closure Devices outside Catheterization Laboratory after Neuro-Endovascular Procedures Is Safe and Effective *Rakesh Khatri, Nassir Rostambeigi, Ameer Hassan, Blake Carlson, Gustavo Rodriguez, Adnan Qureshi*

**P05.255** Are Coil Compaction and Aneurysmal Growth Two Distinct Etiologies Leading to Recurrence Following Endovascular Treatment of Ruptured Intracranial Aneurysms? *Mohamed Abdihalim, Masaki Watanabe, Saqib Chaudhry, Bharathi Jagadeesan, Muhammad Suri, Adnan Qureshi*

**P05.256** Surveillance Imaging after Intracranial Stent Implantation: Non-Invasive Imaging Compared with DSA *Behrad Golshani, Marc Lazzaro, Ziad Darkhabani, Flavius Raslau, Dhiraj Baruah, Brian-Fred Fitzsimmons, Osama Zaidat*

**P05.257** A Critical Analysis of Intra-Arterial Thrombolytic Doses in Acute Ischemic Stroke Patients *Summer Hassan, Ameer Hassan, Nassir Rostambeigi, Mikayel Grigoryan, Saqib Chaudhry, Steve Cordina, Rakesh Khatri, Adnan Qureshi*

**P05.258** Atypical MRI Findings in a Spinal Dural Arteriovenous Fistula—Histology as Clue to the Diagnosis *Jana Becker, Markus Kraemer, Christian Paul Stracke, Kathy Keyvani, Peter Berlit*

**P05.259** Early Results of Stenting for Acute Stroke Intervention Following Full Dose IV Alteplase (SASI-1 Study) *Jawad Kirmani, Mohammad Moussavi, David Turkel-Parrella, Usama Siddique, Spozhmy Panezai, Mohammad Ibrahim, Martin Gizzi*

**P05.260** Combining Intravenous and Endovascular Approaches To Treat Severe Strokes in the Real World: A Safety Analysis *Aniel Majjoo, Bharath Naravetla, Arunkumar Muthusamy, Pratik Bhattacharya, Sandra Narayanan, Andrew Xavier*

**P05.261** Styloidogenic Jugular Venous Compression Syndrome: Diagnosis and Treatment *Pramod Gupta, Dhruvil Pandya, Marc Lazzaro, Brian-Fred Fitzsimmons*

**P05.262** Endovascular Surgical Neuroradiology Simulator Is of Benefit in the Acquisition of Basic and Intermediate Skills by Novice Fellows *Nauman Tariq, Ameer Hassan, Farhan Siddiq, Windwossen Tekle, Saqib Chaudhry, Shahram Majidi, Masaki Watanabe, Muhammad Suri, Adnan Qureshi*

**P05.263** Stroke Associated with Severe Cerebral Vasospasm after Petroclival Meningioma Resection *Mohamad Chmayssani, Santosh Murthy, Subrata Ghosh, Eric Bershad, Jose Suarez*

**P05.264** Correlation between ECASS Defined Intracranial Bleed and 90 Days Outcome after Endovascular Treatment for Acute Stroke *Rochelle Sweis, Deepa Malaiyandi, Mohammad Issa, Vishal Jani, Muhammad Taqi, Osama Zaidat*

**P05.265** Endovascular Intervention for Post Cardiac Catheterization Ischemic Strokes *Amit Kansara, Rahul Damani, Ambooj Tiwari, Sandra Narayanan, Seemant Chaturvedi, Andrew Xavier*

**P05.266** Mycotic Carotid Aneurysm and Embolic Infarct Following Sphenoid Sinusitis, Requiring Internal Carotid Occlusion *Sayed Nabizadeh, David Griesemer, Neel Madan, Adel Malek*

**P05.267** Unusual Presentation of Dural Venous Fistula Presenting as Quadraplegia: Successful Treatment with Onyx Embolization *Muhib Khan, Andrew Russman, Max Kole*

**P05.268** Endovascular Treatment of Posterior Circulation Strokes Presenting More Than 10 Hours after Symptom Onset: A Case Series *Divyajot Sandhu, Ashish Nanda, Anantha Vellipuram, Pradeep Sahota*

**P05.269** Endovascular Intervention for Acute Stroke Due to Infective Endocarditis: A Case Report *Haitham Dababneh, Waldo Guerrero, Keith Peters, J. Mocco, Brian Hoh, Michael Waters*

**P05.270** Endovascular Treatment Outcomes in Acute Posterior Circulation Stroke Patients Undergoing Mechanical Thrombolysis with Penumbra System: A Single Center Experience *Tanzila Shams, Jitendra Sharma, Richard Jung, Kristine Blackham*

**P05.271** Spontaneous Occlusion of Arteriovenous Malformation *Vijayalakshmi Rajasekaran, Ludwig Gutmann, Jeffery Hogg*

**P05.272** Recanalization Rates and Safety of Aggressive Intra-Arterial Mechanical and Pharmacological Endovascular Therapy (IAMPET) in Acute Ischemic Stroke *Jawad Kirmani, Mohammad Moussavi, David Turkel-Parrella, Daniel Korya, Spozhmy Panazi, Mohammad Ibrahim, Martin Gizzi*

**Join the Annual Meeting Conversation!**

Connect with colleagues and get updates on what's going on at the 2012 AAN Annual Meeting in New Orleans at [www.Twitter.com](http://www.Twitter.com) (use hashtag #AANAM) and on the AAN Facebook Page!

- S31**  
**Multiple Sclerosis: Immunology: Mechanism of Action**  
**4:00 p.m. S31.001**  
Analysis of Predictive Biomarkers for Estimation of MS Patients' Long-Term IFN- $\beta$  Therapy Outcome *Brigitte Paap, Michael Hecker, Dirk Koszcan, Hans-Juergen Thiesen, Uwe Zettl*  
**4:15 p.m. S31.002**  
Laquinimod Protects from Cuprizone-Induced Demyelination through Modulation of Astrocyte Activation Via Interfering with the NF- $\kappa$ -B Pathway *Wolfgang Brück, Gareth John, Ramona Pförtner, Liat Hayardeny, Nisimov, Victor Piryatinsky, Christiane Wegner*  
**4:30 p.m. S31.003**  
Fingolimod Treatment in Multiple Sclerosis Increases the Ability of Circulating  $\gamma\delta$  T Cells To Regulate Pro-Inflammatory Th1 and Th17 T Cell Responses *Peter Darlington, Nadia Ouamara, Iva Stonebridge, Ayal Rozenberg, Mark Freedman, Jack Antel, Amit Bar-Or*  
**4:45 p.m. S31.004**  
CD56<sup>bright</sup> Natural Killer Cell Expansion Predicts Response to Daclizumab HYP Treatment in RRMS: Results of the SELECT Trial *Jacob Elkins, James Sheridan, Lakshmi Amaravadi, Katherine Riester, Gilmore O'Neill*  
**5:00 p.m. S31.005**  
Biological Effects of Neutralizing Antibodies Against Interferon beta in Multiple Sclerosis (on Behalf of the NABINMS Study Group) *Harald Hegen, Alban Millonig, Florian Deisenhammer*  
**5:15 p.m. S31.006**  
Inhibition of PI3K $\gamma$ : Uncovering a Novel Sex-Dimorphic Target in the Treatment of Progressive Multiple Sclerosis *Natasha Gatson, Hong Ji, Kristen Smith, Caroline Whitacre*
- S32**  
**Hyperkinetic Disorders: Essential Tremor, Tourette's Syndrome, and Huntington's Disease**  
**4:00 p.m. S32.001**  
PNKD Functions in RIM-Dependent Pathway To Regulate Exocytosis *Louis Ptacek, Yiguo Shen, Ying-Hui Fu*  
**4:15 p.m. S32.002**  
Huntington Disease Like Phenotypes Not Linked to CAG Repeat Expansions in the HTT Gene *Perrine Charles, Louise-Laure Mariani, Cécile Cazeneuve, Valérie Hahn-Barma, Katia Youssov, Sandrine Noel, Jean-Noel Peuvion, Danielle Seilhean, Leorah Freeman, Emmanuel Roze, Anne-Catherin Bachoud-Levi, Alexandra Durr*  
**4:30 p.m. S32.003**  
Increased Regional Expression of Lingo-1 in the Essential Tremor Cerebellum: A Postmortem, Case-Control Study *Sheng-Han Kuo, Guomei Tang, Karen Ma, Rachel Babji, Ai Yamamoto, Jean Paul Vonsattel, Phyllis Faust, David Sulzer, Elan Louis*  
**4:45 p.m. S32.004**  
Inter-Rater Reliability of the Essential Tremor Rating Assessment Scale (TETRAS) *Rodger Elble, Peter LeWitt, Kelly Lyons, William Ondo, Rajesh Pahwa, Kapil Sethi, Natividad Stover, Daniel Tarsy, Claudia Testa, Ron Tintner, Theresa Zesiewicz*  
**5:00 p.m. S32.005**  
School Performance in Tic Disorders. A Cross-Sectional Study of School Performance in 1,867 Children in Central Spain *Esther Cubo Delgado, José Trejo Gabriel Galán, Vanesa Ausin-Villaverde, Sara Saez, Vanesa Delgado-Benito, Jesús Macarón-Vicente, Elan Louis, José Cordero-Guevara, Julian Benito-Leon*  
**5:15 p.m. S32.006**  
Genome-Wide Association Study of Gilles de la Tourette Syndrome *Jeremiah Scharf, Dongmei Yu, Carol Mathews, Benjamin Neale, Evelyn Stewart, Jes Fagerness, Patrick Evans, Eric Gamazon, Susan Service, Lisa Osiecki, Cornelia Illmann, Danielle Cath, Robert King, Yves Dion, Paul Sandor, Cathy Barr, Cathy Budman, Gholson Lyon, Marco Grados, Harvey Singer, Joseph Jankovic, Donald Gilbert, Pieter Hoekstra, Gary Heiman, Jay Tischfield, Matthew State, Mary Robertson, Roger Kurlan, Roel Ophoff, J. Raphael Gibbs, Mark Cookson, John Hardy, Andrew Singleton, Andres Ruiz-Linares, Guy Rouleau, Peter Heutink, Ben Oostra, William McMahon, Nelson Freimer, Nancy Cox, David Pauls*
- S33**  
**Carotid Disease, Aneurysms, and Apnea**  
**4:00 p.m. S33.001**  
A Randomized Trial Comparing Primary Angioplasty Versus Stent Placement for Symptomatic Intracranial Stenosis Author Block Randomized Trial Comparing Primary Angioplasty versus Stent Placement investigators  
**4:15 p.m. S33.002**  
Risk Reduction of Brain Infarctions during Carotid Endarterectomy and Carotid Stenting Using Sonolysis *Roman Herzig, David Skoloudik, Martin Kuliha, Martin Roubec, Vaclav Prochazka, Tomas Jonszta, Jan Krajca, Daniel Czerny, Tomas Hrbac, David Otahal*  
**4:30 p.m. S33.003**  
Complication Rates among Women Receiving Contemporary Carotid Revascularization Procedures *Pratik Bhattacharya, Rahul Damani, Mahmoud Rayes, Seemant Chaturvedi*  
**4:45 p.m. S33.004**  
Increased Lymphocyte-Platelet Complex Formation as a Measure of Enhanced Platelet Activation in Recently Symptomatic Versus Asymptomatic 'Microembolic Signal Negative' Carotid Stenosis Patients – Results from the Platelets and Carotid Stenosis (PACS) Study *Justin Kinsella, Oliver Tobin, Sean Tierney, T. Martin Feeley, Bridget Egan, D. Ronan Collins, Tara Coughlan, Desmond O'Neill, Joseph Harbison, Colin Doherty, Prakash Madhavan, Demot Moore, Sean O'Neill, Raymond Murphy, Maher Saqqur, George Hamilton, Dominick McCabe*  
**5:00 p.m. S33.005**  
Impact of Pattern of Admission on Mortality & Functional Outcome Following Aneurysmal Subarachnoid Hemorrhage *Neeraj Naval, J. Carhuapoma, Rafael Tamargo*  
**5:15 p.m. S33.006**  
Circadian Timing and Severity of Acute Stroke in Patients with Undiagnosed Obstructive Sleep Apnea: A Single Center Experience *Hesham Masoud, Ezequiel Piccione, Junyang Gong, Tony Masri, Brian Koo*
- S34**  
**Aging and Dementia: Imaging**  
**4:00 p.m. S34.001**  
[<sup>18</sup>F]-Flutemetamol PET Amyloid Imaging and Cortical Biopsy Histopathology in Normal Pressure Hydrocephalus: Pooled Analysis of Four Studies *David Wolk, Juha Rinne, Dean Wong, Ville Leinonen, Steven Arnold, Chris Buckley, Adrian Smith, Richard McLain, Paul Sherwin, Gill Farrar, Marita Kailajärvi, Igor Grachev*  
**4:15 p.m. S34.002**  
Direct Correlations of [H-3] PiB Binding and Amyloid-beta Concentration and Plaque Load in [C-11]PiB Imaged Brains *Milos Ikonomic, Julie Price, Eric Abrahamson, Chester Mathis, William Paliug, Manik Debnath, Lan Shao, Carl Becker, Ronald Hamilton, William Klunk*  
**4:30 p.m. S34.003**  
Fibrillar Amyloid Correlates of Subtle Cognitive Decline among Normal Individuals *Cynthia Stonnington, Xiaofen Liu, Dona Locke, Wendy Lee, Richard Caselli, Eric Reiman, Kewei Chen*  
**4:45 p.m. S34.004**  
Amyloid Burdens in MCI of Alzheimer's Disease Versus Subcortical Vascular Dementia *Mi-Ji Lee, Sangwon Seo, Duk Na*  
**5:00 p.m. S34.005**  
Differential Effect of the C9orf72 Hexanucleotide Repeat on Brain Morphology in bvFTD and FTD-ALS *Jennifer Yokoyama, Leonel Takada, Sharon Sha, Anna Karydas, Baber Khan, Jamie Fong, Mariely DeJesus-Hernandez, Nicola Rutherford, Matthew Baker, Rosa Rademakers, Giovanni Coppola, William Seeley, Adam Boxer, Bruce Miller, Katherine Rankin*  
**5:15 p.m. S34.006**  
Pattern of Cortical Thinning in Unaffected at Risk Members of Families with Mutations in Granulin *Donata Paternicò, Michela Pievani, Luisa Benussi, Roberta Ghidoni, Giuliano Binetti, Alberto Orlandini, Milena Cobelli, Giovanni Frisoni*
- S35**  
**Autoimmune Myasthenia Gravis and Inflammatory Myopathy**  
**4:00 p.m. S35.001**  
The Multifaceted Character of the Cytokine Lymphotoxin $\beta$  in Inflammatory Myopathies *Jan De Bleecker, Kim Creus, Joachim Weis, Boel De Paepe*  
**4:15 p.m. S35.002**  
Recombinant IgG Fc Fragments Effectively Suppress Experimental Myasthenia Gravis *Matthew Meriggioli, Jian Rong Sheng, Liang Li, Thirupathy Muthusamy, Bellur Prabhakar*  
**4:30 p.m. S35.003**  
Fc $\gamma$ Receptor Polymorphisms, Disease Severity and Response to IVIG Treatment in Myasthenia Gravis *Carolina Barnett Tapia, Shaoyun Grinberg, Mahdi Ghani, Ekaterina Rogava, Peter St. George-Hyslop, Hans Katzberg, Vera Bril*  
**4:45 p.m. S35.004**  
Randomized, Double-Blind, Placebo-Controlled, Crossover, Multicenter, Phase II Study of Eculizumab in Patients with Refractory Generalized Myasthenia Gravis (gMG) *James Howard, Richard Barohn, Miriam Freimer, Vern Juel, Tahseen Mozaffar, Michelle Mellion, Michael Benatar, Maria Farrugia, John Kissel, The MG Study Group*  
**5:00 p.m. S35.005**  
GM-CSF Treatment of a Patient in Myasthenic Crisis: Clinical Outcome and Effects on Regulatory T Cells (Tregs) *Julie Rowin, Muthusamy Thirupathi, Ebinehita Arhebamen, Jian Rong Sheng, Bellur Prabhakar, Matthew Meriggioli*  
**5:15 p.m. S35.006**  
Safety Factor for Neuromuscular Transmission Is Reduced in Mild and Moderate Myasthenia Gravis Due to Loss of Both Sodium Channels and Acetylcholine Receptors *Robert Ruff*

## S36

## Headache II

**4:00 p.m. Presentation of the Harold Wolff-John Graham Award: An Award for Headache/Facial Pain Research**

Recipient:  
**Simon Akerman, MD**  
San Francisco, CA

**4:15 p.m. S36.002**

Pathway CH-1 Study: Sphenopalatine Ganglion (SPG) Stimulation for Acute Treatment of Chronic Cluster Headache (CCH) – Initial Experience *Miguel Lainez, Rigmor Jensen, Ame May, Michel Lanteri-Minet, Charly Gaul, Amy Goodman, Anthony Caparso, Jean Schoenen*

**4:30 p.m. S36.003**

The Joint Association of Migraine and Depression with Brain Volume: The AGES-Reykjavik Study *Larus Gudmundsson, Ann Scher, Thor Aspelund, Sigurdur Sigurdsson, Jean-Sebastien Vidal, Vilmondur Gudnason, Lenore Launer*

**4:45 p.m. S36.004**

Hypnic Headache, a Sleep Related Respiratory Disorder? *Tomas Segura, Ana Perona, Ramon Coloma, Manuel Zorita*

**5:00 p.m. S36.005**

Infant Colic Is Associated with Maternal Migraine *Amy Gelfand, Katherine Thomas, Peter Goadsby*

**5:15 p.m. S36.006**

Visual Snow: A New Disease Entity Distinct from Migraine Aura *Christoph Schankin, Farooq Maniyar, Jan Hoffmann, Denise Chou, Peter Goadsby*

## S37

## Infections I

**4:00 p.m. S37.001**

Micro-Structural Alterations in the Brain of Well-Treated HIV+ Patients with Mild Neurocognitive Disorders: A Multi-Contrast MRI Study at High Field *Cristina Granziera, Alessandro Daducci, Samanta Simioni, Matthias Cavassini, Alexis Roche, Djalel Meskaldji, Melanie Michel, Alexandra Calmy, Bernard Hirschel, Gunnar Krueger, Renaud Du Pasquier*

**4:15 p.m. S37.002**

Gonadal Hormone Dysfunction Modulates CSF Oxidative Stress Markers in HIV-Seropositive Women with Cognitive Impairment *Valerie Wojna, Thomas Curry, Norman Haughey, Veera Bandaru, Richard Skolasky, Rosa Hachavarría, Raul Mayo, Carole Bryant, Carole Anderson, Mayra Fernandez, Joyce Velez, Avindra Nath*

**4:30 p.m. S37.003**

Mild Neurocognitive Impairment in HIV Infection Is Associated with Neuroinflammation on Positron Emission Tomography *William Kreisl, Amira Brown, Chul Hyoung Lyoo, Yi Zhang, Cheryl Morse, Kimberly Jenko, David Clark, Sami Zoghbi, Deneen Esposito, Gilbert Mbeo, Jason Creighton, Victor Pike, Robert Innis, Justin McArthur*

**4:45 p.m. S37.004**

Inflammatory Mechanisms Lead to Specific BG Changes in Primarily Non-Demented HIV-Infected Patients: The Neuradapt Study *Muriel Laffon, Gregoire Malandain, Mattéo Vassallo, Stephane Chanalet, Christine Lebrun Frenay, The Neuradapt Group*

**5:00 p.m. S37.005**

Rivastigmine for the Treatment of HIV-Associated Neurocognitive Disorders: A Randomized, Double-Blind, Placebo-Controlled, Crossover Pilot Study *Samanta Simioni, Matthias Cavassini, Mélanie Michel, Jean Marie Annoni, Katia Iglesias, Aline Rimbault Abraham, Alexandra Calmy, Ezio Giacobini, Bernard Hirschel, Renaud Du Pasquier*

**5:15 p.m. S37.006**

A Common Polymorphism in the COMT Gene Confers an Increased Risk of Neuropathic Pain in HIV Sensory Neuropathy *Ronald Ellis, Scott Letendre, Debralee Rosario, Benjamin Gelman, David Clifford, David Simpson, Justin McArthur, Christina Marra, J. Allen McCutchan, Igor Grant*

## S38

## Ethics

**4:00 p.m. Presentation of the Mitchell B. Max Award for Neuropathic Pain**

Recipient:  
**Howard Fields, MD, PhD**  
Emeryville, CA

**4:15 p.m. S38.002**

Experimental Hypoglycemia Is a Human Model of Stress-Induced Hyperalgesia *Christopher Gibbons, Istvan Bonyhay, Adam Benson, Gail Adler, Roy Freeman*

**4:30 p.m. S38.003**

A Randomized, Double-Blind, Placebo Controlled, Parallel Assignment, Flexible Dose, Efficacy Study of Nabilone as Adjuvant in the Treatment of Diabetic Peripheral Neuropathic Pain Using an Enriched Enrollment Randomized Withdrawal Design *Cory Toth, Shefina Mawani, Shauna Brady, Cynthia Chan, CaiXia Liu, Essie Mehina, Alexandra Garven, Jennifer Bestard, Lawrence Korngut*

**4:45 p.m. S38.004**

Palliative Care of Patients with Metastatic Spinal Cord Cancer: A Cost-Utility Analysis Comparing the Standard of Care with Direct Decompressive Surgical Resection Followed by Radiotherapy *Julio Furlan, Kevin Chan, Guillermo Sandoval, Kenneth Lam, Christopher Klinger, Roy Patchell, Audrey Laporte, Michael Fehlings*

**5:00 p.m. S38.005**

Nocebo in Neurology: A Meta-Analysis with Important Implications for Clinical Practice and Trial Design *Dimos Dimitrios Mitsikostas, Dimitrios Papadopoulos, Leonidas Mantonakis, Nikolaos Chalarakis, Pantelis Stathis, Michalis Smpilliris, Evie Delicha, Petros Sfikakis*

**5:15 p.m. S38.006**

Focal Injection of OnabotulinumtoxinA Improves Refractory Local Cancer Pain at the Site of Surgery/Radiation *Shivam Mittal, Duarte Machado, Bahman Jabbari*

## S39

## Evaluating the Causes and Effects of Stroke

**4:00 p.m. S39.001**

What Should Be the  $\Delta$ NIHSS Threshold for the Definition of Neurological Deterioration in Acute Ischemic Stroke? *James Siegler, Andre Kumar, Michael Gillette, Karen Albright, Amelia Boehme, Sheryl Martin-Schild*

**4:15 p.m. S39.002**

National Trends in Underlying Etiologies in Patients with Ischemic Stroke: An Analysis in United States from 2002-2009 *Swaroop Pawar, Vikram Jadhav, Saqib Chaudhry, Ameer Hassan, Amir Khan, Gustavo Rodriguez, M. Fareed Suri, Adnan Qureshi*

**4:30 p.m. S39.003**

Cerebral Venous Thrombosis and Spontaneous Intracranial Hypotension *Peggy Reiner, Isabelle Crassard, Caroline Roos, Mathias Rossignol, Jean-Pierre Guichard, Hugues Chabriet, Marie-Germaine Bousser*

**4:45 p.m. S39.004**

Impact in Rate of Thrombolysis after Implementation of Telestroke Network *Edilberto Amorim, Min-Mei Shih, Lori Massaro, Syed Zaidi, Mouhammad Jumaa, Vivek Reddy, Maxim Hammer, Tudor Jovin, Lawrence Wechsler*

**5:00 p.m. S39.005**

Derivation of a Novel Pre-Hospital Stroke Scale *Toby Gropen, Sammy Pishanidar, Ethan Brandler, Dov Rosenbaum, Michael Szarek, Nazli Janjua, Steven Levine*

**5:15 p.m. S39.006**

Why Should I Read My Own CT Scans? *Manoj Mittal, Raymond Seet, Zhang Yi, Alejandro Rabinstein*

## S40

## Multiple Sclerosis: Immunology: Biomarkers and Disease Mechanism

**4:00 p.m. S40.001**

MCAM Identifies Encephalitogenic T<sub>H</sub>17 Lymphocytes and Promotes Their Recruitment to the CNS *Catherine Larochelle, Romain Cayrol, Hania Kebir, Marc-André Lécuyer, Jorge Alvarez, Nathalie Arbour, Alexandre Prat*

**4:15 p.m. S40.002**

Macrophage Recruitment in Secondary Progressive Multiple Sclerosis *Erez Hanael, Tali Rothmann, Rina Falb, Michael Gurevich, Anat Achiron*

**4:30 p.m. S40.003**

microRNA Expression in Peripheral Blood Monocytes Is Altered in Both Relapsing and Progressive Forms of Multiple Sclerosis *Roopali Gandhi, Laura Edwards, Samia Khoury, Oleg Butovsky, Howard Weiner*

**4:45 p.m. S40.004**

microRNAs Regulate Effector Cytokine Secretion by Human B Cells – Implication for B Cell Cytokine Dysregulation in Multiple Sclerosis *Yusei Miyazaki, Hétoum Misirliyan, Nasr Farooqi, Mayra Solis, Omar de Faria Junior, David Colman, Ajit Dhaunchak, Amit Bar-Or*

**5:00 p.m. S40.005**

Suppression of Experimental Autoimmune Encephalomyelitis with Nanoparticles Carrying a Central Nervous System Antigen and a Non-Toxic Aryl Hydrocarbon Receptor Ligand *Ada Yeste, Meghan Nadeau, Evan Burns, Howard Weiner, Francisco Quintana*

**5:15 p.m. S40.006**

Cerebrospinal Fluid IL-12p40 Is a Biomarker of Intrathecal Inflammation in Multiple Sclerosis *Matthew Herman, Tianxia Wu, Bibiana Bielekova*

## Poster Discussion Session: Muscle Disease/Neuromuscular Junction

**PD6.001** Expanding the Spectrum of ANO5-Muscular Dystrophy: Skeletal Muscle Amyloidosis, Cardiac Arrhythmia and Novel Mutations *Teerin Liewluck, Elliot Dimberg, Thomas Winder, Margherita Milone*

**PD6.002** Glycogen Storage Disease Type II (GSDII): Is Autophagy Beneficial or Detrimental? *Anna Chiara Nascimbeni, Marina Fanin, Eva Masiero, Corrado Angelini, Marco Sandri*

**PD6.003** Role of RNA and MBNL1 Nuclear Foci in Pathomolecular Mechanism in Myotonic Dystrophy Type 1 and Type 2 *Giovanni Meola, Valentina Renna, Enrico Bugiardini, Marzia Giagnacovo, Carlo Pellicciari, Manuela Malatesta, Rosanna Cardani*

**PD6.004** Overexpression of Human Alpha7 Integrin as a Potential Therapy for Duchenne Muscular Dystrophy *Kristin Heller, Chrystal Montgomery, Kim Shontz, Vinod Malik, Paul Janssen, K. Reed Clark, Louise Rodino-Klapac, Jerry Mendell*

**PD6.005** Adeno-Associated Viral (AAV)-Mediated Follistatin (FS) Gene Transfer Toxicology Studies in Preparation for Phase I Clinical Trial *Janaiah Kota, Christopher Shilling, Chrystal Montgomery, Sarah Lewis, Adam Bevan, Kim Shontz, Yuuki Kaminoh, Xiomara Rosales, Laurence Viollet, Kevin Flanigan, Reed Clark, Brian Kaspar, Zarife Sahenk, Jerry Mendell*

**PD6.006** Dysfunctional Regulatory T Cells in Patients with Autoimmune Myasthenia Gravis: Therapeutic Targets? *Matthew Meriglioli, Thirupathy Muthusamy, Julie Rowin, Jian Rong Sheng, Bellur Prabhakar*

**PD6.007** Long Term Efficacy of Rituximab in Patients with MuSK Auto-Antibody Myasthenia Gravis *Richard Nowak, Benison Keung, Kimberly Robeson, Daniel DiCapua, Jonathan Goldstein*

**PD6.008** Costs and Charges for Plasma Exchange (PLEX) Versus Intravenous Immunoglobulin (IVIg) in the Treatment of Neuromuscular Disease *Jenice Robinson, Matthew Eccher, Amanda Bengier, Joshua Liberman*

**PD6.009** Clinical Features of Immune Myopathies with Perimysial Pathology (IMPP) *Robert Bucelli, Alan Pestronk*

**PD6.010** Anti-SRP Myopathy: Disease Progression and Neurological Outcome *Shigeaki Suzuki, Yukiko Hayashi, Masataka Kuwana, Rie Tsuburaya, Norihiro Suzuki, Ichizo Nishino*

### Neuro-Oncology: Translational Studies and Paraneoplastic Syndromes

**PD6.001** Glioma Biomarker Discovery by Mass Spectrometry *Lennard Dekker, Majid Kheirollahi, Gunther Stockhammer, Theo Luider, Peter Sillevius Smitt*

**PD6.002** Immunoglobulin-Derived Peptides Are a Source of Novel Antigen-Specific Markers for Paraneoplastic Neurological Syndromes *Martijn van Duijn, Peter Maat, Lennard Dekker, Theo Luider, Peter Sillevius Smitt*

**PD6.003** The Role of p75NTR and Its Signaling Pathways in Fenretinide (4HPR)-Induced Apoptosis in Neuroblastoma Cells *Veena Ganeshan, Nina Schor*

**PD6.004** O<sup>6</sup>-Methylguanine-DNA Methyltransferase (MGMT) Promoter Methylation and Low MGMT-Encoded Protein Expression as Prognostic Markers in Glioblastoma Patients Treated with Biodegradable Carmustine Wafer Implants after Initial Surgery Followed by Radiotherapy with Concomitant and Adjuvant Temozolomide *Jean-Sébastien Guillamo, Guénaëlle Levallet, Audrey Dugué, Anne Vital, Marie-Danièle Diebold, Philippe Menei, Philippe Colin, Philippe Peruzzi, Evelynne Emery, Myriam Bernaudin, Françoise Chapon, Emmanuèle Lechapt-Zalcman*

**PD6.005** Acute Effects of 835 MHz Radiofrequency Radiation Exposure to Mice Hippocampus and Cerebellum *Chang Min Lee, Sang Kil Lee, Jee Hyun Kim, Jae Il Kim*

**PD6.006** Circulating Tumor Cells in Patients with Glioblastoma *Josh Cohen, Erin Dunbar, Brent Reynolds*

**PD6.007** The Anti-Neuronal Autoantibodies in Patients with Endometrial and Breast Cancer *Slawomir Michalak, Karolina Poplawska, Dariusz Szperek, Agata Paluch, Monika Englert-Golon, Stefan Sajdak, Wojciech Kozubski*

**PD6.008** Paraneoplastic Syndrome Presenting as Bilateral Vocal Cord Paralysis *Manpreet Kaur, Susan Weaver, Dzintra Celmins*

**PD6.009** Paraneoplastic Cerebellar Degeneration Associated with Purkinje Cell Cytoplasmic Antibodies Type I and Sjogren Syndrome with Diffusion Restriction on MRI *George Zinkhan, John Steffens, Stefan Pulst*

**PD6.010** Hunting for an Ovarian Teratoma in Anti-NMDA Receptor Encephalitis *Fareeha Ashraf, Kelly Janis, Benjamin Walter*

### Neuro-Oncology: Neurologic Complications of Cancer and Treatment

**PD6.011** A Prospective Single Institution Study of Optic Neuropathy in 10 Patients with Glioblastoma Receiving Bevacizumab *Robert Fishman, Lara Kunschner*

**PD6.012** Results of Bevacizumab Therapy on Hearing Loss Associated with Vestibular Schwannomas in NF2: Three Patients *Pichet Termsarasab, Lisa Rogers, Cliff Megerian, Nicholas Bambakidis*

**PD6.013** Intratumoral Hemorrhage after Thrombolytic Therapy in a Patient with Meningioma *Michael Rosario, Shilpi Mittal, Matthew Imperoli, Kevin McMahon, Christa San Luis, Catherine Hosley*

**PD6.014** Central Nervous System Vascular Complications in Children and Adults with Neurofibromatosis Type 1 *Amanda Bergner, Bonnie Kaas, Aaron Chance, Lori Jordan, Jaishri Blakeley*

**PD6.015** Posterior Reversible Encephalopathy Syndrome in Cancer Patients *Asif Paker, Carlos Kamiya-Matsuoka, Linda Chi, Monica Loghin*

**PD6.016** Transient Leukoencephalopathy after Intrathecal Chemotherapy Mimicking Stroke *Pantea Zohrevand, Monica Loghin*

**PD6.017** Nonconvulsive Seizure in Post Stem Cell Transplant Patients *Pantea Zohrevand, Sudhakar Tummala*

**PD6.018** Clinical and Neurophysiological Evaluation of Peripheral Nervous System Abnormalities in Patients with Lymphoproliferative Disorders *Marcin Rogoziewicz, Malgorzata Wiszniewska, Pawel Wiszniewski, Slawomir Michalak, Wojciech Kozubski*

**PD6.019** Nervous System Metastases from Malignant Mesothelioma *Nina Martinez, Christian Grommes*

**PD6.020** The Natural History of Intravascular Lymphoma *Ekokobe Fonkem, David Robison, Edwin Lok, Shiva Gautam, Eric Wong*

### Neurologic Education: Procedural Skills

**PD6.021** Evaluating the Safety and Success of Bedside Lumbar Puncture in a Changing Academic Environment *Justin Jordan, Benjamin Greenberg, Jessica Lee*

**PD6.022** Competency-Based Curricula in DBS and ITB Therapies for Movement Disorders *Bruce Bellande, Zev Winicur, Bruno Gallo, Michael Turner, Michael Saulino, Susan Heath, Susan Bennett, Mary Elizabeth Nelson, Cynthia Reese, Andrea Larson, Suzanne Dawidowicz, Jamie Boche, Kathleen Cox*

**PD6.023** Neurology Tools: Usage Frequency *Shahpar Nahrir, Omar AlSinaidi, Raheel Siddiqui, Shobhit Sinha, David Nicholls, Khurram Siddiqui*

**PD6.024** Lumbar Puncture Teaching Module Standardization. Ensuring Patient Safety through Proper Training *Giuseppe Ciccotto, Alexis Nelson, Maike Blaya*

**PD6.025** The Tsimerinov Sign: To Detect Non-Organic Weakness of the Upper Extremity *Thomas Lombardi, Edward Barton, Dawn Eliashiv, Jeffrey Chung, Abirami Muthukumar, Jingtian Wang, Evgeny Tsimerinov*

**PD6.026** Evaluating the Use of High Fidelity Simulation To Introduce and Educate Incoming Neurology Resident Learners to Common Neurologic Emergencies and Procedures *Jessica Lehosit, Scott Vota, Soundarya Gowda*

**PD6.027** Lumbar Puncture Simulation Training Improves Medical Student Knowledge and Confidence *Andrew Westwood, Anna Hohler*

### Neurologic Education: Outpatient Neurology

**PD6.028** Teleneurology at New Mexico Veterans Affairs Health Care System's Only Tertiary Referral Center *Molly King, Julia Coleman, Larry Davis*

**PD6.029** Reported History of Abuse and Violence in Neurology Clinic Patients *Ashley Roque, Anna Hohler*

## Poster Session VI

**P06.030** Changing Profile of 7,519 Patients Attending an Outpatient Neurologic Clinic over 20 Years: From Reason for Consultation to a Definitive Diagnosis *Victor Del Brutto, Oscar Del Brutto*

**P06.031** Neurology Education on FXTAS across the World: From Training Foreign Specialists in the US to Opening a Specialty Clinic in China *Lin Zhang, Ying Liu, Flora Tassone, Maureen Leehey, Randi Hagerman*

### Movement Disorders: Huntington's Disease and Tics

**P06.032** Tetraabenazine for Moderate vs. Severe/Disabling Chorea Associated with Huntington's Disease (HD) *Vivienne Shen, Kathleen Clarence-Smith, Christine Hunter, Joseph Jankovic*

**P06.033** Abnormal Responses to Visual Cortex Activation in Early Stage Huntington Disease Patients Using 31P-NMR Spectroscopy *Fanny Mochel, Tra-My Nguyen, Dinesh Deelchand, Daisy Rinaldi, Romain Valabregue, Claire Wary, Pierre Carlier, Alexandra Durr, Pierre-Gilles Henry*

**P06.034** Long-Term Safety and Efficacy of Tetraabenazine in the Treatment of Chorea Associated with Huntington's Disease *Vivienne Shen, Kathleen Clarence-Smith, Christine Hunter, Joseph Jankovic*

**P06.035** Is the Penney Burden of Pathology (BOP) Score a Reasonable Index of Disease Severity in Premanifest HD (preHD)? *D. S. Adnan Majid, Diederick Stoffers, Anders Dale, Jody Goldstein, Adam Aron, Jody Corey-Bloom*

**P06.036** Correlations between Burden of Pathology Score and Cognitive, Motor, and Psychiatric Measures in Premanifest Huntington's Disease (preHD) *Shea Gluhm, Jody Goldstein, Adnan Majid, Jody Corey-Bloom*

**P06.037** Long-Term Neuropsychological Follow-Up in Pallidal Stimulation for Medically-Refractory Tourette Syndrome *Joohi Jimenez Shahed, Bonnie Scott, Adriana Strutt*

**P06.038** Correlation between Burden of Pathology Scores and Cognitive and Functional Symptoms in Huntington's Disease *Daniel Brown, Jody Goldstein, Shea Gluhm, Paul Gilbert, Jody Corey-Bloom*

**P06.039** Concomitant Use of Antidepressants and Neuroleptics with Tetraabenazine during Treatment of Huntington's Disease (HD) *Kathleen Clarence-Smith, Vivienne Shen, Christine Hunter, Joseph Jankovic*

**P06.040** A Pilot Study Comparing Cognitive Assessments in Huntington's Disease *Samuel Frank, Melissa Diggin, Brook Etherington*

**P06.041** The Portrayal of Tourette's Syndrome in Film and Television *Samantha Calder-Sprackman, Asif Doja, Stephanie Sutherland*

### Gait and Balance Impairment

**P06.042** Modeling the Effects of Gravity Transitions in the Vestibular System: Preliminary Findings *Fidias E. Leon-Sarmiento, Carlos Rizzo-Sierra, Alexander Gonzalez*

**P06.043** The Value of the Barrow Neurological Institute Balance Scale in Predicting Falls *Sameea Husain, Narayanan Krishnamurthi, Anthony Santiago, Rohit Dhall, Guillermo Moguel-Cobos, Arshia Sadreddin, Naomi Salins, Di Pan, Abraham Lieberman, Sara Dhanani*

**P06.044** Bradykinesia, Rigidity, and Postural Instability and Gait Difficulty Occur More Commonly in Men with Parkinson Disease Compared to Women Independent of Nigrostriatal Dopaminergic Denervation *Vikas Kotagal, Roger Albin, Martijn Muller, Robert Koeppe, Kirk Frey, Nicolaas Bohnen*

**P06.045** Reliability of the Overground Walk Test in Persons with Parkinson's Disease *Jyh-Gong Hou, Monthaporn Bryant, Diana Rintala, Elizabeth Protas*

**P06.046** Improvement in Postural Response as a Possible Mechanism for Decrease in Falls with Vitamin D *Amie Peterson, Martina Mancini, Fay Horak*

**P06.047** Is Difficulty with Balance Different from Difficulty Walking in Parkinson's Disease? *Abraham Lieberman, Narayanan Krishnamurthi, Anthony Santiago, Rohit Dhall, Guillermo Moguel-Cobos, Arshia Sadreddin, Sameea Husain, Naomi Salins, Di Pan, Sara Dhanani*

**P06.048** Effects of Bradykinesia and Hypokinesia on Falls in Parkinson's Disease *Abraham Lieberman, Narayanan Krishnamurthi, Anthony Santiago, Rohit Dhall, Guillermo Moguel-Cobos, Arshia Sadreddin, Sameea Husain, Naomi Salins, Di Pan, Sara Dhanani*

**P06.049** Gait and Posture Control Impairments Predict Falls in Parkinson's Disease *Naomi Salins, Narayanan Krishnamurthi, Anthony Santiago, Rohit Dhall, Guillermo Moguel-Cobos, Arshia Sadreddin, Sameea Husain, Abraham Lieberman, Di Pan, Sara Dhanani*

**P06.050** Factors Associated with Gait Impairment in Parkinson Disease *Zoltan Mari, James Williams, Gregory Pontone, Susan Bassett*

**P06.051** Impaired Vestibular Control Mechanisms Underlie Balance Deficits in Fragile X-Associated Tremor/Ataxia Syndrome *Emily Dunn, Deborah Hall, Joan O'Keefe, Elizabeth Berry-Kravis, Bichun Ouyang*

### Parkinson's Disease: Non-Motor Symptoms

**P06.052** Fatigue in Parkinson's Disease *Houman Homayoun, Glenn Stebbins, Barbara Tilley, Christopher Goetz*

**P06.053** Excessive Daytime Sleepiness, Sleep Quality, and Cognitive Impairment in Parkinson's Disease *Reena Ghode, Bichun Ouyang, Bryan Bernard, Glenn Stebbins, Jennifer Goldman*

**P06.054** The Parkinson Disease Cognitive Functional Rating Scale (PD-CFRS): A Brief and Specific Instrument To Rate the Impact of PD Cognitive Symptoms on Daily Function *Jaime Kulisevsky, Ramón Fernández de Bobadilla, Javier Pagonabarraga, Saül Martínez-Horta, Carmen García-Sánchez, Berta Pascual-Sedano, Antonia Campolongo, Carolina Villa, Roser Ribosa, Alexandre Gironell*

**P06.055** Stress Induced-Salivary alpha-Amylase Secretion Decreases in Patients with Parkinson's Disease *Kiyokazu Kawabe, Yasuhiro Yoshii, Osamu Kano, Ken Ikeda, Yasuo Iwasaki*

**P06.056** Small Fiber Sensory Neuropathy in Parkinson Disease with Autonomic Failure *Peter Novak, Paula Ravin, Lan Qin*

**P06.057** Depressive Symptoms in Parkinson Disease as Measured by Beck's Depression Scale and Its Relationship to Visual Analogue Mood Scale, Motor Symptoms and the Quality of Life Measures *Arash Salardini, Ramon Rodriguez, Irene Malaty, Michael Okun, Hubert Fernandez*

**P06.058** Effects of Parkinson's Disease Medications on Cognition: Better Performance with Agonists *Susan Bassett, James Williams*

**P06.059** Differential Effects of Parkinson's Disease and Dopamine Replacement on Memory Encoding and Retrieval *Penny MacDonald, Alex MacDonald, Ken Seergobin, Ruzbeh Tamjeedi, Hooman Ganjavi, Oury Monchi*

**P06.060** Cognitive Assessment in Early Stage of Parkinson's Disease *Nilgun Cinar, Sevki Sahin, Meral Bozdemir, Tugba Okluoglu, Kubra Batum, Sibel Karsidag*

**P06.061** Pain in Parkinson's Disease (PD) *Jitendra Baruah, Gita Baruah*

### Parkinson's Disease: Quality of Life

**P06.062** Is Quality of Life Affected Equally by Decline and Improvement in Parkinson Disease Severity? *Lisa Shulman, Ann Gruber-Baldini, Karen Anderson, Renzo Figari-Jordan, Paul Fishman, Stephen Reich, William Weiner*

**P06.063** Does Spouse Participation Influence Quality of Life Reporting in Patients with Parkinson's Disease? *Chelsea Morrow, Katherine Smertkowski, Stacy Schwartz, Ann Gruber-Baldini, Karen Anderson, William Weiner, Stephen Reich, Lisa Shulman*

**P06.064** Declining Quality of Life in Parkinson Disease Patients before and after Diagnosis *Natalia Palacios, Xiang Gao, Michael Schwarzschild, Alberto Ascherio*

**P06.065** Predictors of Caregiver Burden in Parkinson's Disease. National Parkinson Foundation (NPF) Quality Improvement Initiative *Odinachi Oguh, Mary Kwansy, Becky Stell, Tanya Simuni*

**P06.066** Variation of Patient-Reported Outcomes (PDQ-39) in a Cross-Sectional Analysis of the NPF QIL- Research Registry *Jorge Zamudio, Peter Schmidt, Mark Guttman, John Nutt, Andrew Siderowf, Eugene Nelson*

**P06.067** Comparison of Disability and Quality of Life in Parkinsonian Syndromes *Renzo Figari-Jordan, Ann Gruber-Baldini, Karen Anderson, Stephen Reich, William Weiner, Paul Fishman, Lisa Shulman*

**P06.068** Psychiatric Comorbidities and Mortality among Hospitalized Parkinson Disease Patients *Nicte Mejia, Zeina El-Chemali*

**P06.069** Efficacy of Multidisciplinary Rehabilitation Combined Music Therapy with Physical Therapy and Occupational Therapy for Motor and Nonmotor Symptoms in Parkinson's Disease Patients *Shiho Okuda, Minako Kajita, Takahiro Urabe, Toshihide Inagaki, Ikumi Yamagata, Masayuki Shirakawa, Takehiro Ueda, Fumio Kanda, Shin Takano*

**P06.070** Impaired Visually-Dependent, Large-Scale EEG Information Flows in Parkinson's Disease at Rest *Giorgia Tropini, Joyce Chiang, Z. Wang, Edna Ty, Martin McKeown*

**P06.071** Understanding Knowledge, Attitudes, and Beliefs about Parkinson's Disease in the Philadelphia Community – A Cross Cultural Comparison *Sarah Pan, Julie Stutzbach, Suzanne Reichwein, Nabila Dahodwala*

### Movement Disorders: Parkinson Plus Syndromes

**P06.072** Clinical and Biochemical Differences between Parkinson's Disease Patients With and Without Mutations in the Glucocerebrosidase Gene *Lama Chahine, Emily Ashbridge, James Minger, Dora Yearout, Judy Qiang, Andrew Siderowf, Howard Hurtig, Cyrus Zabetian, Virginia Lee, Vivianna Van Deerlin, John Trojanowski, Alice Chen-Plotkin*

## Poster Session VI

**P06.073** Lithium in Multisystem Atrophy: Lack of Efficacy and Safety Issues *Francesco Sacca, Angela Marsili, Arturo Brunetti, Rosa Carbone, Giuseppe De Michele, Chiara Pane, Cinzia Valeria Russo, Elena Salvatore, Tecla Tucci, Mario Quarantelli, Alessandro Filla*

**P06.074** Clinical Features of Vascular Parkinsonism in Pathologically Confirmed Cases *Philip Glass, Andrew Lees, Aroldo Bacellar, Jan Zijlman, Regina Katzenschlager, Laura Silveira-Moriyama*

**P06.075** Clinical Characteristics of Parkinsonism in Frontotemporal Dementia Syndromes Associated with Mutations in MAPT, PGRN, C9ORF72 *Rodolfo Savica, Neill Graff-Radford, Mariela DeJesus-Hernandez, David Knopman, Anahita Adeli, Brendon Boot, Karen Kuntz, Ronald Petersen, Nicola Rutherford, Matthew Baker, Rosa Rademakers, Bradley Boeve*

**P06.076** Region of Interest Measurements of Structural Volumes in Patients with Parkinson's Disease, Atypical Parkinsonism, and REM Sleep Behavior Disorder: Baseline Measurements from a Prospective Longitudinal Study *Brian Copeland, Timothy Ellmore, Michelle Beurlet, Qinghua Liang, Jessika Suessun, Erin Furr-Stimming, Richard Castriotta, Mya Schiess*

**P06.077** Higher Level Gait Disorders in the Elderly Subject: Postural Instability, Cortical and Subcortical Abnormalities *Marie-Laure Welter, Adèle Demain, Max Westby, Fabrice Bonneville, Manh Cuong Do, Sophie Tézenas du Montcel, Didier Dormont, Yves Agid, Sara Fernandez-Vidal, Nathalie Chastan*

**P06.078** Atypical and Vascular Parkinsonism in Jamaica *Amza Ali, Keith Josephs*

**P06.079** Pan-American Consortium of Multiple System Atrophy. Preliminary Report *Emilia Gatto, Pedro Chana, Jose Luis Etcheverry, Eliza Gallin, Marcelo Miranda, Virginia Parisi, Ana Sanguinetti, Mariela Rodríguez Violante, Irene Litvan*

**P06.080** From Parkinson's Disease to Alzheimer Disease *Hana Prikrylova Vranova, Martin Nevrlý, Petr Hlustik, Jan Mares, Radko Obereigneru, Petr Kanovsky*

**P06.081** Familial Corticobasal Syndrome Associated with Basal Ganglia Hypointensities *Robert Fekete, Jose Baizabal Carvallo, Andreana Rivera, Suzanne Powell, William Ondo*

### Assessment and Treatment of Parkinson's Disease

**P06.082** Effect of Exercise on the Clinical Progression of Parkinson Disease *Pauline Gou, Sylvain Chouinard, Nicolas Jodoin, Sabrina Diab, Michel Panisset*

**P06.083** The Parkinson Progression Marker Initiative (PPMI) – Experience with Data and Biospecimen Access (PPMI) Parkinson's Progression Marker Initiative

**P06.084** Effect of Dopamine Agonist Medications on Blood Pressure in Early Parkinson's Disease *Anna Molinari, Fenna Phibbs, Lily Wang, Chandler Gill, Yanna Song, P. Charles*

**P06.085** Rotigotine Transdermal System Improves Pain in Patients with Parkinson's Disease: A Post-Hoc Analysis of Patients Reporting Pain in the RECOVER Study *Theresa Zesiewicz, Olivier Rascol, Joseph Friedman, Erwin Surmann, Babak Borojerd, Kimberly Moran, Liesbet Ghys, Jan Kassubek, on Behalf of the RECOVER Study Investigators*

**P06.086** Interaction of 3, 4 Dihydroxyphenyl Acetaldehyde (DOPAL) with Rasagiline and Aminoindan: Implication in Parkinson Disease *Vijay Kumar, Michael Panneton, Mark Franko, William Burke*

**P06.087** Use of Rasagiline or Selegiline and Hospitalizations among Patients with Parkinson's Disease *Elizabeth Grubb, Maureen Lage, Jane Castelli-Haley*

**P06.088** Rotigotine Transdermal System Improves Neuropsychiatric Features (Apathy, Anhedonia, Anxiety, and Depression) and Fatigue in Patients with Parkinson's Disease: A Post-Hoc Analysis of Five Double-Blind Placebo-Controlled Studies *Robert Hauser, Paul Nausieda, Erwin Surmann, Kimberly Moran, Paolo Barone*

**P06.089** Comparing Clinical Features of Young-Onset, Middle-Onset and Late-Onset Parkinson's Disease *Raja Mehanna, Suzanne Moore, Jyh-Gong Hou, Eugene Lai, Aliya Sarwar*

**P06.090** Intra- and Multi-Day Home-Based Monitoring of Parkinson's Disease Motor Symptoms *Dustin Heldman, Danielle Filipkowski, Alberto Espay, Jaya Mishra, Joseph Giuffrida*

**P06.091** Capturing Choreatic Dyskinesias over Levodopa Dose Cycle in Parkinson's Disease *Thomas Mera, Michelle Burack, Frank Bonsignore, Joseph Giuffrida*

### Epilepsy: Medications

**P06.092** Determining Antiepileptic Drug Efficacy in Pediatric Patients: Results from a Systematic Review of Clinical Trials in Adults Compared to Children *John Pellock, Wendy Carman, Veena Thyagarajan, Tony Daniels, Dexter Morris, O'Neill D'Cruz*

**P06.093** Effect of Topiramate on Height in Pediatric Patients with Newly Diagnosed Epilepsy *Lisa Ford, Mike Todd, Elena Polverejan*

**P06.094** Treatment of Status Epilepticus: Mono- or Polytherapy? *Claude Wasterlain, Roger Baldwin, Jerome Niquet, Lucie Suhomelova*

**P06.095** Safety of Eslicarbazepine Acetate by Type of Concomitantly Used AEDs: An Exploratory Integrated Analysis of Two Phase III Studies *David Blum, Todd Grinnell, Mark Versavel, Jacqueline Zummo, Theresa Nunes, Patricio Soares-da-Silva*

**P06.096** Clobazam Is Efficacious for Drop Attacks in Patients with Lennox-Gastaut Syndrome across the Age Spectrum: Subgroup Analysis of the CONTAIN Trial *Wendy Mitchell, Joan Conry, Yu-tze Ng, Rebecca Drummond, Randall Owen*

**P06.097** Adjunctive Use of Ezogabine/Retigabine with Either Traditional Sodium Channel Blocker or Non-Sodium Channel Blocker Antiepileptic Drugs: Evaluation of Efficacy *Martin Brodie, Jacqueline French, Susan McDonald, Andrew Scott, Wen-Jene Lee, Virinder Nohria, Sarah DeRossett*

**P06.098** Adjunctive Use of Ezogabine/Retigabine with Either Traditional Sodium Channel Blocker or Non-Sodium Channel Blocker Antiepileptic Drugs: Evaluation of Safety and Tolerability *Jacqueline French, Martin Brodie, Susan McDonald, Andrew Scott, Bryan Adams, Virinder Nohria, Sarah DeRossett*

**P06.099** Do Antidepressant Medications Have Antiepileptic Properties? *Ramses Ribot, Bichun Ouyang, Andres Kanner*

**P06.100** Results from the CATZ Study: A Phase III, Double-Blind, Randomized, Placebo-Controlled Trial To Assess the Efficacy and Safety of Adjunctive Zonisamide in Pediatric Patients with Partial-Onset Seizures *Anna Rosati, Joanna Segieth, Luigi Giorgi, Renzo Guerrini*

**P06.101** Efficacy and Tolerability of SPN-804, a Novel, Once-Daily Extended-Release Formulation of Oxcarbazepine as Adjunctive Therapy in Patients with Refractory Partial Seizures *Paolo Baroldi, Scott Brittain, Dawn Louro, Janet Johnson*

**P06.102** Utilization and Effectiveness of Different Antiepileptic Drugs [AEDs] in Status Epilepticus [SE] *Jason Wong, Soundarya Gowda, Scott Vota, Lawrence Morton, Alan Towne*

**P06.103** Does Nicotine Patch Use Influence Seizure Number, Durations of Stay or Rate of Seizure Acquisition during Elective Video EEG Telemetry? *Mihir Parikh, Alan Haltiner, Jehuda Sepkuty, Lisa Caylor, Ednea Simon, Marcio Sotero de Menezes, Jenny Schoenfeld, Michael Doherty*

**P06.104** An Investigation of the Incidence and Time to Onset of Adverse Events Associated with Eslicarbazepine Acetate Adjunct Treatment: An Integrated Analysis of Two Double-Blind Placebo-Controlled Trials *Michael Sperling, Todd Grinnell, Mark Versavel, Jacqueline Zummo, David Blum, Patricio Soares-da-Silva*

**P06.105** Efficacy of Eslicarbazepine Acetate by Type of Concomitantly Used AEDs: An Exploratory Integrated Analysis of Two Phase III Studies *Mark Versavel, Hailong Cheng, David Blum, Jacqueline Zummo, Theresa Nunes, Patricio Soares-da-Silva*

**P06.106** Withdrawal-Related Adverse Events from Clinical Trials of Clobazam in Lennox-Gastaut Syndrome (LGS) *Dwain Tolbert, Stuart Harris, Ihor Bekersky, Randall Owen*

**P06.107** Oxcarbazepine Extended-Release (SPN-804) Therapy in Patients with Refractory Partial Seizures: Review of Neurologic and Ophthalmologic Adverse Events *Janet Johnson, Scott Brittain, Eric Keeler, Dawn Louro, Paolo Baroldi*

**P06.108** Homocysteinemia Associated with Anti-Epileptic Medications – A Retrospective Study of Clinical Practice *Lakshmi Mukundan, Gina Jetter, Laura Moreno, Susan Rogers, William Gentry, Susan Carlson, Jose Cavazos*

**P06.109** An Analysis of the Potential for Suicidality with Ezogabine (Retigabine) *Kevan VanLandingham, Neil Brickel, Sarah DeRossett*

**P06.110** Antiepileptic Drug Use Patterns in the Pediatric and Adult Medicaid Population *Zhixiao Wang, Joyce Cramer, Xuan Li, Ronda Copher, Annette Powers*

**P06.111** Steady-State Pharmacokinetic Profiles of Extended- and Immediate-Release Topiramate *Tricia Braun, Lawrence Lambrecht, Wesley Todd, Mark Halvorsen*

**P06.112** Switching between Immediate- and Extended-Release Formulations Does Not Affect the Steady-State Pharmacokinetic Profile of Topiramate *Lawrence Lambrecht, Tricia Braun, Wesley Todd, Mark Halvorsen*

**P06.113** Adjunctive Lacosamide in Clinical Practice: A Multicenter Prospective Study in Spain, by the Central Spain Lacosamide Study Group *Jaime Parra-Gomez, Javier Carod-Artal, Pedro Bermejo, Hari Bhathal, Antonio Martin Araguz, José Plaza Nieto, Antonio Yusta Izquierdo, Elena Toribio Díaz, Anne Gomez Caicoya, Daniel Sagarra Mur, Jose Maria Gomez Aguelles*

## Poster Session VI

**P06.114** Lacosamide Added to Concomitant AEDs Grouped by Mechanism of Action: Impact on Patient-Reported Health-Related Quality of Life in Pooled Phase II/III Trials *Marc De Backer, Simon Borghs, David Herbert, John-Kenneth Sake, Joyce Cramer*

**P06.115** Adjunctive Therapy with Lacosamide for Older Epilepsy Patients *Evan Fertig, Melissa Fleming, Enrique Feoli, Georges Ghacibeh, Olgica Laban, Cristos Lambrakis, Salah Mesad, Jeffrey Politsky, Marcelo Lancman*

**P06.116** The Incidence of Cognitive Adverse Events Related to Eslicarbazepine Acetate: An Integrated Analysis *Mark Versavel, Kimford Meador, David Blum, Jacqueline Zummo, Kenneth Tripp, Patricia Soares-da-Silva*

**P06.117** Perampanel, a Selective, Non-Competitive AMPA Receptor Antagonist as Adjunctive Therapy in Patients with Refractory Partial-Onset Seizures: A Dose Response Analysis from Phase III Studies *Lynn Kramer, Emilio Perucca, Elinor Ben-Menachem, Patrick Kwan, Jerry Shih, David Squillacote, Haichen Yang, Jin Zhu, Antonio Laurenza*

**P06.118** Gabapentin Neurotoxicity Including Posterior Reversible Leucoencephalopathy Syndrome (PRES) *Anne Kleiman, Barbara Koppel, Gokhan Akfirat, Maria Chiechi*

**P06.119** Trends in Outcomes and Hospitalization Charges among Non Mechanically Ventilated Elderly Patients with Status Epilepticus in the United States (1994-2009) *Tejas Patel, Hafiz Kahn, Zubeda Sheikh, Nizar Souayah*

**P06.120** Effects of Concomitant Lamotrigine or Valproate Therapy on Clobazam for Lennox-Gastaut Syndrome: Subanalyses of the CONTAIN Trial *J. Renfro, Joan Conry, Yu-tze Ng, Rebecca Drummond, Randall Owen*

**P06.121** Indirect Comparison of Clobazam and Adjunctive Therapies for Lennox-Gastaut Syndrome: Results of an Effect-Size Analysis *Joyce Cramer, Christophe Sabin, Angélique Gani, Clément François*

**P06.122** Efficacy of Two Drug Combinations for Patients with Epilepsy *David Gloss, Neil Shah, Linda Leav, Sunita Dergalust*

**P06.123** Does Geographic Region Impact the Efficacy of Ezogabine/Retigabine in Adults with Partial-Onset Seizures? Analysis of US vs Non-US Results *David Burdette, Antonio Gil-Nagel, Andrew Scott, Wen-Jene Lee, Susan McDonald, Sarah DeRossett*

**P06.124** An Exploratory Analysis of Predictors of Minimum Sodium Level Related to Treatment with Adjunct Eslicarbazepine Acetate *Hailong Cheng, Jacqueline Zummo, Rui Sousa, Mark Versavel, David Blum*

**P06.125** Evaluation of Long-Term Treatment with Lacosamide for Partial-Onset Seizures: A Pooled Analysis of Open-Label Extension Trials *William Rosenfeld, Aatif Husain, Felix Rosenow, Cindy McShea, Jouko Isojarvi, Pamela Doty*

**P06.126** Lacosamide as Add-On to Monotherapy in Patients with Partial-Onset Seizures: Interim Results of the Post-Marketing VITObA Study (VImPaT Added to One Baseline AED) *Matthias Noack-Rink, Thomas Mayer, Stephan Arnold, Thomas Kumke, Uwe Runge*

**P06.127** Demographic Factors and Concomitant Antiepileptic Drugs Have No Effect on the Pharmacodynamics of Perampanel *Ziad Hussein, Jim Ferry, Gregory Krauss, David Squillacote, Antonio Laurenza*

**P06.128** Extended-Release Topiramate (USL255) Exhibits Linear Dose-Proportional Pharmacokinetic Characteristics *Mark Halvorsen, Lawrence Lambrecht, Wesley Todd*

### Chronic Immune Neuropathies

**P06.129** Ipsilateral Lower Limb Neuropathies Following Hip Surgery Can Be Due to Inflammation *Ruple Laughlin, Nathan Staff, James Watson, P. James B. Dyck*

**P06.130** A Randomised, Double-Blinded, Placebo Controlled Trial of the Effect of Subcutaneous Immunoglobulin on Muscular Performance in Chronic Inflammatory Demyelinating Polyneuropathy *Johannes Jakobsen, Lars Markvardsen, Thomas Harbo, Soren Sindrup, Henning Andersen, Ingelise Christiansen, Niels Olsen, Lisbeth Lassen*

**P06.131** Chronic Inflammatory Demyelinating Polyradiculoneuropathy after Solid Organ Transplantation: A Prospective Study *Andoni Echaniz-Laguna, Jean Baptiste Chanson, Jerome De Seze, Christine Tranchant*

**P06.132** Substitution of SCIg for IVIg in Immune-Mediated Neuropathy Patients Unable to Tolerate IVIg *David Saperstein, Todd Levine*

**P06.133** Leukemic Infiltration of Peripheral Nerve: Case Series and Review of the Literature *Chandan Reddy, Michelle Mauermann, Kebede Begna, Michael Ringler, Nivedita Jerath, Kimberly Amrami, Robert Spinner*

**P06.134** The Cytokine Profile of Chronic Inflammatory Demyelinating Polyneuropathy *Hongxin Chen, Norman Ende, Nizar Souayah*

**P06.135** Chronic Inflammatory Demyelinating Polyneuropathy Presenting with Recurrent Ataxia, Bulbar Weakness, and Respiratory Dysfunction *Robert Malka, Eugeniu Muntean*

**P06.136** Peripheral Demyelinating Neuropathy (PN) in Multiple Sclerosis (MS) *Jitendra Baruah, Gita Baruah*

**P06.137** Pure Motor Chronic Inflammatory Demyelinating Polyneuropathy: Relationship to Multifocal Motor Neuropathy with Conduction Block *Dinah Thyerlei, Michael Weiss*

### Acute Immune and Toxic Neuropathies

**P06.138** Neuropathy Due to Amiodarone: Schwann Cells Are the Target *Kelsey Hohol, Zaid Jawad, Amit Ayer, Cory Toth*

**P06.139** The Clinical and Electrophysiologic Features of AMAN in Southwestern Arizona and Northern Mexico *Shafeeq Ladha, Erik Ortega, James Sejvar, Suraj Muley*

**P06.140** The Clinical Spectrum of Bortezomib-Induced Peripheral Neuropathy *Michelle Mauermann, Angela Dispenzieri, Nathan Staff*

**P06.141** Effect of Sera from Bickerstaff Brainstem Encephalitis and Miller Fisher Syndrome Patients Against Human Blood-Brain Barrier and Blood-Nerve Barrier In Vitro Models *Kazuyuki Saito, Fumitaka Shimizu, Michiaki Koga, Yasuteru Sano, Hiroyo Haruki, Toshihiko Maeda, Masaaki Abe, Ayako Tasaki, Seiko Suzuki, Susumu Kusunoki, Hidehiro Mizusawa, Takashi Kanda*

**P06.142** The Expression of Fc Gamma Receptors in Guillain-Barré Syndrome Nerves *Gang Zhang, Sujatha Kakuru, Tong Gao, Nataliia Bogdanova, Kazim Sheikh*

**P06.143** Clinical Usefulness of Serum Alpha2-Globulin in Guillain-Barre Syndrome To Predict Its Clinical Course *Hitoshi Mori*

**P06.144** Comparison between EGRIS and Outcome of Guillain-Barré Syndrome: Retrospective Study in One Center *Hwa Kyoung Chung*

**P06.145** Anti-GM1/GD1a Complex Antibodies in Sera from Patients with Guillain-Barré Syndrome Specifically Recognize the Hybrid Dimer of GM1-GD1a *Susumu Kusunoki, Ken-ichi Kaida, Laura Mauri, Riccardo Casellato, Maria Ciampa, Sandro Sonnino*

**P06.146** Guillain-Barre Syndrome Presenting with Perioral Numbness Followed by Diffuse T-Wave Inversion *Lucia Rivera-Lara, Johnny Salameh*

**P06.147** Guillain Barre Syndrome and Neoplastic Disease *Mariela Bettini, Ana Bissoni, Ana Toral, Jimena Miguez, Marcelo Rugiero, Edgardo Cristiano*

**P06.148** Acute Motor Axonal Neuropathies: Incidence, Evolution and Outcomes at the University Hospital of Seville *Paula Martinez-Agredano, Enrique Montes-Latorre, Maria Adilia Ruiz-Rodriguez, Dolores Jimenez*

### Peripheral Nerve: Compression Neuropathy

**P06.149** Ultrasound Is Superior to Magnetic Resonance Imaging for Detecting Peripheral Nerve Pathology in Mononeuropathies and Brachial Plexopathies *Craig Zaidman, Michael Seelig*

**P06.150** Comparison of Recovery of Tactile Function and Sensation after Median or Ulnar Nerve Lesions Repaired by Suture or Nerve Guide *Christian Krarup, Birgitta Rosén, Michel Boeckstyns, Allan Ibsen, Simon Archibald*

**P06.151** Peripheral Neuropathy after Bariatric Surgery without Nutritional Assessment Due to Vitamin B12 Deficiency *Jose Gien-Lopez, Bruno Estanol*

**P06.152** Role of Surgical Decompression of Lower Extremity Nerves in Painful Neuropathy *Vinay Chaudhry, Allan Belzberg, Gedge Rosson*

**P06.153** Compressive Femoral Neuropathy Secondary to Local Reactive Lymphadenopathy Following Total Hip Arthroplasty *Neetu Dhadwal, Jin Li*

**P06.154** Carpal Tunnel Syndrome: When and How To Treat? *Kushak Suchdev, Humaira Fahim, Sindhu Ramchandren*

**P06.155** An Open-Label Pilot Study Evaluating Heated Lidocaine/Tetracaine Patches in the Treatment of Patients with Carpal Tunnel Syndrome *Srinivas Nalamachu, Rohit Nalamasu, Thomas Marriott*

### Multiple Sclerosis: Safety and Co-morbidities

**P06.156** Microcystic Macular Edema in Multiple Sclerosis *Jeffrey Gelfand, Rachel Nolan, Daniel Schwartz, Ari Green*

**P06.157** Impact of Concomitant Diabetes on Disability in Multiple Sclerosis: A Retrospective Study *Jiaying Zhang, Nabil Ali, Barbara Glidden, Anthony Izzo, Peter Riskind, Kevin Kane, Neeta Garg*

**P06.158** Early Bilateral Macular Edema Following Fingolomid Therapy for Multiple Sclerosis Resolves without Treatment *Oscar Coppes, Ismael Gutierrez, Anthony Reder, Susan Ksiasek, Jacqueline Bernard*

**P06.159** Evaluating the Aggregate Safety Profile of Disease Modifying Therapies Used in the Treatment of Relapsing Forms of Multiple Sclerosis *Cathryn Carroll, Marguerite Enlow, Denisa Hurtukova*

## Poster Session VI

**P06.160** Longitudinal Characterization of Lymphocyte Subsets and Clinical Follow-Up of MS Patients Receiving Fingolimod *Evanthia Bernitsas, Christina Caon, Sabeen Lulu, Alexandros Tselis, Robert Lisak, Omar Khan*

**P06.161** The Seasonal Variation of Multiple Sclerosis in Chile. A Study of Hospitalization Rates *Violeta Diaz, Jorge Barahona, Juan Antinao, Carlos Silva, Carla Parra, Geiovanny Olivares, Roberto Guiloff*

**P06.162** Health Related Differences among Elderly MS Patients with and without a Caregiver *Marijean Buhse, Wency Banker, Lynn Clement*

**P06.163** Bone Mineral Density Assessment in a Multiple Sclerosis Population *Shalom Haggiag, Alessio Mercurio, Antonio Bray, Ferdinando Valentini, Claudio Gasperini, Simonetta Galgani*

**P06.164** Validation of Administrative Case Definitions for Diabetes, Hypertension and Hyperlipidemia in Persons with MS and Their Application To Determine Temporal Trends in Prevalence *Ruth-Ann Marrie, Nancy Yu, Stella Leung, Lawrence Elliott, James Blanchard*

**P06.165** PEGylated Interferon Beta-1a Pharmacokinetics, Pharmacodynamics, and Safety in Subjects with Normal or Impaired Renal Function *Xiao Hu, Ali Seddighzadeh, Scott Stecher, Larisa Miller, Ying Zhu, Serena Hung*

### Multiple Sclerosis: Dosing Regimens

**P06.166** Increase of Infusion Interval Do Not Impair Natalizumab Efficacy in RR-MS Patients: A Pilot Study Based on Monthly Monitoring of CD49d *Gilles Defer, Delphine Mariotte, Nathalie Derache, Olivier Toutirais, Guillaume Lamotte, Hélène Legros, Brigitte Cauquelin, Brigitte Le Mauff*

**P06.167** Pharmacokinetics and – Dynamics of Natalizumab after Cessation and at Different Dosing Intervals *Undine Hainke, Tjalf Ziemssen, Tony Sehr, Katja Thomas, Thorsten Schultheiss*

**P06.168** RESTORE Study: Effects of a 24-Week Natalizumab Treatment Interruption on Immune Parameters and Multiple Sclerosis Magnetic Resonance Imaging Disease Activity *Bruce Cree, Jerome De Seze, Robert Fox, Ralf Gold, Hans Hartung, Douglas Jeffery, Ludwig Kappos, Michael Kaufman, Xavier Montalban, Bianca Weinstock-Guttman, Amy Natarajan, Meena Subramanyam, Tatiana Plavina, James Woodworth, Petra Duda*

**P06.169** What To Expect after Natalizumab in Every-Day Clinical Practice *Francesca Sangalli, Lucia Moiola, Valeria Barcella, Marta Radaelli, Vittorio Martinelli, Giancarlo Comi*

**P06.170** Natalizumab Discontinuation: Observational Study of University of Colorado Patients with Relapsing-Remitting Multiple Sclerosis *Ngozi Nnunukwe, Teri Schreiner*

**P06.171** Effects of a 24-Week Natalizumab Treatment Interruption on Quality of Life, Fatigue, and Cognition: Results from the RESTORE Study *Bianca Weinstock-Guttman, Bruce Cree, Jerome De Seze, Robert Fox, Ralf Gold, Hans Hartung, Douglas Jeffery, Ludwig Kappos, Michael Kaufman, Xavier Montalban, Amy Natarajan, Richard Morse, Barry Ticho, Petra Duda*

**P06.172** Assessment of Baseline Characteristics, Treatment Efficacy, and Serious Adverse Events among Natalizumab-Treated MS Patients without Prior Treatment *Helmut Butzkueven, Shibeshih Belachew, Ludwig Kappos, Fabio Pellegrini, Maria Trojano, Heinz Wiendl, Annie Zhang, Christophe Hotermans*

**P06.173** Cessation of Natalizumab in Multiple Sclerosis and Risk for Relapse Activity within the First 6 Months *Judith Haas, Stephanie Ebner*

**P06.174** Natalizumab Kinetics and Dose Extension: Defining the Therapeutic Envelope *John Foley*

**P06.175** Downregulation of Intrathecal IgM Synthesis Associates with Optimal Response to Natalizumab in Multiple Sclerosis *Luisa Maria Villar, Maria Garcia-Sanchez, Lucienne Costa-Frossard, Mercedes Espiño, Ernesto Roldan, Dolores Paramo, Miguel Lucas, Guillermo Izquierdo, José Alvarez-Cermeño*

### Multiple Sclerosis: Case Reports and Studies

**P06.176** Limb Ataxia Originating from Peri-Central Sulcus Demyelinating Lesion in Multiple Sclerosis Patients *Yuval Karmon, Sarah Morrow, Leon Weinstock, David Hohnack, Bianca Weinstock-Guttman*

**P06.177** Trigeminal Neuralgia with Initiation of Dalfampridine for Multiple Sclerosis *Greg Thaera, Dean Wingerchuk, Jonathan Carter*

**P06.178** The Food Critic Who Couldn't Taste and 6 Other Cases of Dysgeusia in Multiple Sclerosis *Corey McGraw, Stephen Krieger, Jessica Wong, Michelle Fabian*

**P06.179** Delayed Post-Hypoxic Leukoencephalopathy: A Case Report and Literature Review *Jennifer Andresen, Kirk Kleinfeld, Siddharama Pawate*

**P06.180** Observational Study for MRI Characteristics in HDLS with a Known Gene Mutation on Chromosome 5 *Christina Sundal, Shinsuke Fujioka, Jay Van Gerpen, Christian Wider, Jan Aasly, Sigrun Roeber, Elizabeth Shuster, Bernardino Ghetti, James Garbern, Alexandros Tselis, Russell Swerdlow, Bradley Miller, Rosa Rademakers, Dennis Dickson, Daniel Broderick, Zbigniew Wszolek*

**P06.181** Solitary Focal Demyelination Leading to Diagnosis of Adenocarcinoma of the Lung *Anupama Alareddy, Michele Aizenberg, Matthew White, Rana Zabad*

**P06.182** Demyelinating Syndromes Associated with Anti-TNF alpha Agents: Case Series *Eric Williamson, Adil Javed*

### Multiple Sclerosis: Gender Issues

**P06.183** Menopause May Not Modulate Disease Course in Multiple Sclerosis *Riley Bove, Brian Healy, Maria Houtchens, Bonnie Glanz, Samia Khoury, Charles Guttman, Philip De Jager, Tanuja Chitnis*

**P06.184** Neuromyelitis Optica Relapse Associated with Pregnancy: Similarities to Multiple Sclerosis *Yuko Shimizu, Takashi Ohashi, Keiko Maruyama, Ichiro Nakashima, Kazumasa Yokoyama, Kazuo Fujihara, Shinichiro Uchiyama*

**P06.185** Effect of Intravenous Immunoglobulin Treatment on Pregnancy and Postpartum-Related Relapses in Multiple Sclerosis: A Prospective, Rater-Blinded Analysis *Alexander Winkelmann, Reiner Benecke, Uwe Zettl*

**P06.186** When Supplemental Infant Feedings Begin, Postpartum Multiple Sclerosis Relapses Return *Kerstin Hellwig, Milena Rockhoff, Ralf Gold, Annette Langer-Gould*

**P06.187** Natalizumab and Pregnancy – Results from the German MS and Pregnancy Registry *Kerstin Hellwig, Aiden Haghikia, Ralf Gold*

**P06.188** Disease-Modifying Drugs for Multiple Sclerosis in Pregnancy: A Systematic Review *Ellen Lu, Bing Wei Wang, Colleen Guimond, Anne Synnes, Dessa Sadovnick, Helen Tremlett*

**P06.189** Multinational Gilenya™ (Fingolimod) Pregnancy Exposure Registry in Multiple Sclerosis: Study Design *Yvonne Geissbühler, Helmut Butzkueven, Sonia Hernández-Díaz, Gideon Koren, Tom MacDonald, Hugh Tilson, Kathryn Starzyk, Estel Plana, Malika Cremer, Philipp von Rosenstiel, Kerstin Hellwig*

**P06.190** Pregnancy Outcomes from the Teriflunomide Clinical Development Program: Retrospective Analysis of a Global Pharmacovigilance Database *Olaf Stuve, Myriam Benamor, Hadj Benzerdjeb, Bernd Kieseier*

**P06.191** Final Results from the AVONEX® (Intramuscular Interferon Beta-1a) Pregnancy Exposure Registry *Sandra Richman, Katrina Wallace, Shifang Liu, Bjorn Sperling*

**P06.192** Treatment with Beta-Interferons or Glatiramer Acetate and the Risk of Postpartum Multiple Sclerosis Relapses *Brandon Beaver, Margaret Chi, Sonu Brara, Jian Zhang, Annette Langer-Gould*

### Multiple Sclerosis: Cost Effectiveness and Other Societal Issues

**P06.193** The Impact of the MS-CARE Patient Management Program on Adherence and Healthcare Costs in Interferon-beta Treated Patients with Multiple Sclerosis *Zaza Katsarava, Birgit Ehken, Sarita Patel, Karin Rehberg-Weber*

**P06.194** Estimating Net Health Benefits of Intramuscular Interferon Beta-1a and Fingolimod in Treating Patients with Relapsing-Remitting Multiple Sclerosis *Shelagh Szabo, Carole Dembek, Peter Moore, Leigh Ann White, Hardy Wijaya, Adrian Levy*

**P06.195** Mortality in Multiple Sclerosis in the United States (MIMS-US): A Retrospective, Cohort Study of Survival and Mortality Trends *Shoshana Reshef, Gary Cutter, Howard Golub, Andreas Brueckner, Volker Knappertz*

**P06.196** New Versus Old: Long-Term Comparative Effectiveness Research Projections for Disease Modifying Therapies in Relapse-Remitting Multiple Sclerosis *Jonathan Campbell, R. Brett McQueen, John Corboy, Timothy Vollmer, Kavita Nair*

**P06.197** Multiple Sclerosis after Vaccination in the United States, a Report from the CDC/FDA Vaccine Adverse Event Reporting System (1990-2010) *Wael Abukwaik, Zaid Al Qudah, Nizar Souayah*

**P06.198** Caregiver Abuse and Neglect of People with Multiple Sclerosis *Elizabeth Morrison, Aileen Wiglesworth, Dara Sorkin, Laura Mosqueda*

**P06.199** Cost-Effectiveness of Disease-Modifying Therapies for the Treatment of Patients with Highly Active Multiple Sclerosis – Swedish Perspective *Ken O'Day, Baris Deniz, Kellie Meyer*

**P06.200** Satisfaction with Multiple Sclerosis Care in Daily Practice – Results of a Patient Survey (BEFORE) *Veit Becker, Wolfgang-Gerhard Elias, Wilfried Lürer, Volker Heeschen, Ferenc Tracik, Sonja Ortler, Judith Haas*

**P06.201** Is There an Increased Risk of Hip Fracture in Multiple Sclerosis (MS)? Analysis of the Nationwide Inpatient Sample (NIS) *Richard Dubinsky, Rajib Bhattacharya*



## Poster Session VI

**P06.202** Factors Influencing Patients' Choices of Disease Modifying Therapies in Multiple Sclerosis *Basil Sharrack, Reem Elias, Markus Reuber*

### Interventional Neurology: Intracranial and Extracranial Atherosclerotic Disease

**P06.203** Do Men and Women Undergoing Carotid Endarterectomy or Carotid Stent Placement in General Practice Have Different Outcomes? *Rakesh Khatri, Saqib Chaudhry, Masaki Watanabe, Vikram Jadhav, Ameer Hassan, Gustavo Rodriguez, Muhammad Suri, Adnan Qureshi*

**P06.204** Relationship between Center-Volume and Complication Rates in the Carotid Revascularization Endarterectomy Versus Stenting Trial *Nicole Gonzales, Lawrence Garcia, Daniel Clair, John Barr, Steven Orlow, Meelee Tom, Susan Hughes, Mary Longbottom, Alice Sheffett, Jenifer Voeks, Thomas Brott*

**P06.205** Trends in Complication Rates for Stenting of Asymptomatic Carotids: A Nationwide Evaluation outside Clinical Trials *Amit Kansara, Seemant Chaturvedi, Pratik Bhattacharya*

**P06.206** A Comparison of Carotid Artery Stent Placement Performed within and outside Clinical Trials in the United States *Haitham Hussein, Saqib Chaudhry, Rakesh Khatri, Shahram Majidi, Gustavo Rodriguez, Muhammad Suri, Adnan Qureshi*

**P06.207** Relationship between Peri-Operational Blood Pressure and Adverse Events in Patients Undergoing Intracranial Angioplasty and/or Stent Placement *Jill Crossby, Tenbit Emiru, Saqib Chaudhry, Gustavo Rodriguez, Muhammad Suri, Adnan Qureshi*

**P06.208** Rate of Post-Operational Stroke and Death in SAMMPRIS Trial Eligible Patients Treated with Intracranial Angioplasty and/or Stent Placement in Practice *Farhan Siddiq, Saqib Chaudhry, Masaki Watanabe, Rakesh Khatri, Gustavo Rodriguez, Ramachandra Tummala, Muhammad Suri, Adnan Qureshi*

**P06.209** Pre-Operational International Normalized Ratio and Hemorrhagic Complications Associated with Neurointerventional Procedures *Andrew Martin, Saqib Chaudhry, Hunar Kainth, Haitham Hussein, Gustavo Rodriguez, Muhammad Suri, Adnan Qureshi*

**P06.210** Complications Associated with Eptifibatide Use during Carotid Artery Stenting *Amer Alshekhele, Nirav Vora, Randal Edgell, Ritesh Kaushal, Sonal Mehta, Michelle Storkan, Jacob Kitchener, Richard Callison*

**P06.211** Impact of Point-of-Care Platelet Function Testing by VerifyNow® on Periprocedural Antiplatelet Therapy in Neuroendovascular Stenting *Alireza Noorian, Rishi Gupta, Kathleen Wyatt, Jessica Nichols, Raphael Gershon, Raul Nogueira*

**P06.212** Self-Expandable Stents in the Treatment of Acute Ischemic Stroke Refractory to Current Thrombectomy Devices: Single Center Experience *Mary Garland, Italo Linfante, Edgar Samaniego*

### Interventional Neurology: Endovascular Treatment of Acute Ischemic Stroke

**P06.213** Optimization of CT Scan to Angiography Time Can Reduce Variability in Time Intervals from Symptom Onset to Recanalization in Acute Ischemic Stroke Patients *Summer Hassan, Ameer Hassan, Saqib Chaudhry, Nassir Rostambeigi, Gustavo Rodriguez, Fareed Suri, Adnan Qureshi*

**P06.214** Endovascular Treatment Outcomes in Acute Stroke Patients with Right Versus Left Hemispheric Stroke: A Single Center Experience *Tanzila Shams, Jitendra Sharma, Richard Jung, Kristine Blackham*

**P06.215** Angiographic and Clinical Outcomes after Endovascular Therapy for Acute Ischemic Stroke Due to Vertebrobasilar Occlusions: Pooled Analysis of the Merci Registry, MERCI, and Multi MERCI Trials *Raul Nogueira, Tudor Jovin, Wade Smith, Marilyn Rymer, David Liebeskind, Ronald Budzik, Thomas Devlin, Gary Walker, Helmi Lutsep*

**P06.216** A Comparison of Endovascular Treatment with Intravenous Thrombolysis in Acute Ischemic Stroke Patients with Mild Deficits *Nassir Rostambeigi, Ameer Hassan, Saqib Chaudhry, Haralabos Zacharatos, Wondwossen Tekle, Rakesh Khatri, Aitziber Aleu, Adnan Qureshi*

**P06.217** Physician Decision Making Variations in Pre-Operational Intubation of Ischemic Stroke Patients Undergoing Acute Neuro-Endovascular Treatment *Tenbit Emiru, Saqib Chaudhry, Nassir Rostambeigi, Adnan Qureshi*

**P06.218** Safety of Induced Hypertension in Acute Ischemic Stroke Patients with Suboptimal Recanalization after Endovascular Thrombolysis *Steve Cordina, Shahram Majidi, Saqib Chaudhry, Ameer Hassan, Gustavo Rodriguez, M. Fareed Suri, Adnan Qureshi*

**P06.219** A Comparative Analysis of Endovascular Treatment for Distal Middle Cerebral Artery Occlusions in Patients with Acute Ischemic Stroke *Elisabeth Hurliman, Saqib Chaudhry, Nassir Rostambeigi, Ameer Hassan, Vikram Jadhav, Adnan Qureshi, Gustavo Rodriguez*

**P06.220** Determinants and Outcomes Associated with Withdrawal of Care Following Endovascular Treatment in Acute Ischemic Stroke Patients *Nassir Rostambeigi, Ameer Hassan, Saqib Chaudhry, Rakesh Khatri, Gustavo Rodriguez, Fareed Suri, Adnan Qureshi*

**P06.221** Early Endovascular Therapy for Acute Ischemic Stroke in Patients Ineligible To Receive Intravenous Thrombolysis Is Associated with Poor Outcomes *Hebah Hefzy, Melissa Tian, David Wright, Ashis Tayal*

**P06.222** Safety of Intra-Arterial Bolus and Intravenous Infusion of Eptifibatide as an Adjunct to Intravenous Alteplase in Acute Ischemic Stroke: A Prospective Registry *Mohammad Moussavi, David Turkel-Parrella, Usama Siddique, Spozhmy Panezai, Mohammad Ibrahim, Jawad Kirmani*

### Cerebrovascular Epidemiology

**P06.223** Interaction of Adenosine A2A/A1 Receptor-Mediated Modulation on the Mechanism of Glutamate Release Induced by Transient Focal Cerebral Ischemia in Mice *Li Gui, Hao-Xiang Wang, Wen-hui Fan, Bin Liu, Chuan-Ming Li*

**P06.224** Cocaine Use Is Associated with Ischemic Stroke among Well-Educated White Males *Corey Fehnel, Alison Ayres, Natalia Rost*

**P06.225** International Normalized Ratio and Severity of Ischemic Stroke in Atrial Fibrillation Patients under Oral Anticoagulation *Agustin Jauregui, Francisco Klein, Patricia Riccio, Maria Gonzalez Toledo, Juan Racosta, Francisco Muñoz Giacomelli, Fatima Pagani-Cassara, Luciano Sposato*

**P06.226** Stroke and Transient Ischemic Attacks Can Be Related to Antiplatelet and Oral Anticoagulant Interruption *Vanessa Rizelio, Andre Macuco, Renato Iachinski, Pedro Kowacs*

**P06.227** The Triglyceride: High-Density Lipoprotein-Cholesterol Ratio in Prediction of Development of Atherosclerotic Disease Process *Vishal Jani, Chi Chang, Sayed Hussain, Osama Zaidat, Mounzer Kassab*

**P06.228** Natural vs. Drug-Modified Cholesterol Levels and the Incidence of Ischemic Stroke *Martin Osorio Flores, Yedatore Venkatesh*

**P06.229** Persistent Leukocytosis: A Persistent Problem for Stroke Patients *Amelia Boehme, Andre Kumar, Michael Gillette, James Siegler, Karen Albright, Sheryl Martin-Schild*

**P06.230** Mitral Valve Annular Calcification Is Associated with Poor Outcome after Intracerebral Hemorrhage *Joshua Burak, Karen Albright, E. Sartor, April Sisson, Sheryl Martin-Schild, Carter Denny*

**P06.231** Left Ventricular Hypertrophy Is More Common in Blacks Than Whites with Intracerebral Hemorrhage *Karen Albright, Joshua Burak, Amelia Boehme, James Siegler, M. Carter Denny, Anne Alexandrov, Sharyl Martini, Sheryl Martin-Schild*

### Clinical Observations in Cerebrovascular Disease

**P06.232** FLAIR with Contrast Linked to Better Stroke Diagnosis and Localization Than Diffusion Weighted Imaging *Elissaios Karageorgiou, Daniel Schwab, Mustapha Ezzeddine*

**P06.233** Isolated Hyper-Homocysteinemia as a Risk Factor for Acute Ischemic Stroke in Young: To Believe or Not To Believe? *Prachi Mehndiratta, Man Mohan Mehndiratta*

**P06.234** Factors Affecting Early Outcome in Sri Lankan Patients with Stroke *Udaya Ranavaka, Fiona Alexander, Danushka Nawaratne, Harshani Liyanage, Aruna Kulatunga, Nilmini Tissera, Memon Cooray, Anuradhani Kasthuriratne, Rajitha Wickramasinghe*

**P06.235** Comparison of Outcome of End Stage Renal Disease (ESRD) Patients Who Switched to Peritoneal Dialysis Versus Patients Who Remained on Their Original Mode of Dialysis after an Acute Hemorrhagic or Ischemic Stroke: A Retrospective Study at the National Kidney and Transplant Institute from 2004-2010 *Remy Margaret Berroya*

**P06.236** Epidemiological and Clinical Features of Moyamoya Disease in the United States *Hunar Kainth, Daraspreet Kainth, Saqib Chaudhry, M. Fareed Suri, Adnan Qureshi*

**P06.237** Posterior Circulation Ischemic Strokes in Young Adults *Muriel Laffon, Laurent Suissa, Marie-Hélène Mahagne*

**P06.238** Prehospital GCS as a Predictor of Outcome after Acute Ischemic Stroke *Christian Weaver, Alex Nappi, Aakash Bodhit, Tammy Ju, Heather Applewhite, Vishunmurthy Hedna, Michael Waters, Latha Stead*

**P06.239** Glyburide in Treating Malignant Cerebral Edema. Blocking Sulfonyl Urea One (SURI-one) Receptors *Iftekhar Ahmed*

**P06.240** Effect of Prior Antiplatelet Therapy on Risk and Type of Hemorrhagic Transformation in Patients with Acute Ischemic Stroke after Intravenous Thrombolysis *Shruti Sonni, Adam Drobnis, Claudia Fitzgerald, Kinan Hreib, Matthew Tilem*

**P06.241** Prehospital Vital Signs as Predictors of Death after Intracerebral Hemorrhage *Aakash Bodhit, Tammy Ju, Alex Nappi, Christian Weaver, Heather Applewhite, Vishunmurthy Hedna, Michael Waters, Latha Stead*

## Poster Session VI

**P06.242** Predictive Factors of In-Hospital Cerebrovascular Accident Following Acute Myocardial Infarction: Data from the Nationwide Inpatient Sample, 2006-2008 *Nassim Naderi, Hossein Masoomi, Tahseen Mozaffar, Shaista Malik*

**P06.243** Compensatory Role of the Cortico-Rubro-Spinal Tract in Motor Recovery after Stroke *Theodor Rüber, Robert Lindenberg, Gottfried Schlaug*

**P06.244** Angiographic Patterns in Patients with HIV at Hahnemann University Hospital *Seema Nair, Yedatore Venkatesh*

**P06.245** Just Getting Warmed up: A Retrospective Analysis of the Frequency of Embolic Stroke after Therapeutic Hypothermia for Cardiac Arrest *Jonathan Smith, Adam Kelly*

**P06.246** Intracranial Dural Arteriovenous Fistula Presenting as Ascending Paralysis *Waldo Guerrero, Haitham Dababneh, Keith Peters, Michael Waters*

**P06.247** Thromboembolic Stroke in a Young Woman with Chagas Cardiomyopathy *Ania Busza, Anna Marisa Cervantes-Arslanian, Carlos Kase*

**P06.248** Association of Inflammatory Markers in Vascular Death: A Retrospective Overview *Vishal Jani, Sayed Hussain, Chi Chang, Mounzer Kassab, Brian-Fred Fitzsimmons, Osama Zaidat*

**P06.249** New Onset Atrial Fibrillation in Patients with Acute Perioperative and Non-Perioperative Ischemic Stroke *Francisco Muñoz Giacomelli, Francisco Klein, Patricia Riccio, Maria Gonzalez Toledo, Fatima Pagani-Cassara, Agustin Jauregui, Juan Racosta, Luciano Sposato*

**P06.250** Unusual Clinical Presentations and Mechanism of Bilateral Thalamic Infarcts: A Case Series *Michael Manchak, Karen Odrzywolski, Adam Kelly, Curtis Benesch*

**P06.251** Unfavorable Neurological Outcome among Patients Admitted during On-Call Hours *Patricia Riccio, Francisco Klein, Francisco Muñoz Giacomelli, Fatima Pagani-Cassara, Agustin Jauregui, Maria Gonzalez Toledo, Juan Racosta, Luciano Sposato*

### Critical Care/Emergency Neurology/Trauma

**P06.252** Diffusion Tensor Imaging Detects Neuronal Recovery after Traumatic Axonal Injury *Brian Edlow, William Copen, Mel Glenn, Steven Greenberg, David Greer, Ona Wu*

**P06.253** Infarction Volume Predicts Recovery from Prolonged Disability in Subarachnoid Hemorrhage *Neil Rosenberg, Storm Liebling, Matthew Maas, Andrew Naidech*

**P06.254** Differences in Rotterdam and GCS Scores between Adult and Pediatric Traumatic Brain Injury *Korak Sarkar, Carly Lewis, Marike Zwienenberg-Lee, Jan Paul Muizelaar, Kia Shahlaie*

**P06.255** Evaluation of Stroke in a Pediatric Emergency Department *Cherisse Mecham, Michael Mundorff, Nancy Mecham, Joyce Soprano, Kim Bennett, Denise Nielsen*

**P06.256** Sudden Reversible Painless Binocular Vision Loss – A New Cause: Case Report and Review of Literature *Pradeep Bollu, Shi Lim, Gulshan Uppal, Niranjan Singh*

**P06.257** Changes on Dynamic Cerebral Autoregulation Are Associated with Delayed Cerebral Ischemia in Patients with Aneurysmal Subarachnoid Hemorrhage *Santiago Ortega-Gutierrez, Nils Petersen, Andres Reccius, Amy Huang, Guillermo Linares-Tapia, Randolph Marshall, Neeraj Badjatia*

**P06.258** Mild Controlled Hypothermia Induction Is Safe and Feasible for the Treatment of Intracranial Hypertension in Patients with Aneurysmal Subarachnoid Hemorrhage *Mohammad Ibrahim, David Turkel-Parrella, Adel Hanna, Daniel Korya, Elzbieta Wirkowski, Jawad Kirmani*

**P06.259** Methadone and "Bath Salt" Use Causing Near-Fatal Posterior Reversible Encephalopathy Syndrome *Dhruvil Pandya, Deepa Malaiyandi, Khaled Asi, Ann Helms, John Lynch*

**P06.260** Post Surgical Cerebral Venous Sinus Thrombosis: A Rare Surgical Complication and Challenging Management Case *Yousef Hannawi, Eric Bershad, Jose Suarez, Hashem Shaltoni, Daniel Yoshor, Chethan Venkatasubba Rao*

**P06.261** Cardiac Arrest Mortality Rates Have Declined Since the Introduction of Therapeutic Hypothermia *Jennifer Fugate, Waleed Brijijiki, Harry Cloft, Alejandro Rabinstein*

**P06.262** Yield of Continuous EEG Monitoring in Post Anoxic Encephalopathy Patients: EEG Findings during and after Therapeutic Hypothermia Therapy for Comatose Cardiac Arrest *Thomas Lombardi, Chad Miller, Jingtian Wang, Evgeny Tsimerinov, Jeffrey Chung, Dawn Eliashiv*

**P06.263** Continuous Electroencephalography in Neuroscience ICU Setting as a Potential Modality of Detecting Intracranial Pressure Changes *Alejandro Homik, Danilo Vitorovic, Rajinder Singh, Michael Schneck, Maria Baldwin, Sarkis Morales-Vidal*

**P06.264** Trends in Outcomes and Hospitalization Charges among Mechanically Ventilated Elderly Patients with Status Epilepticus in the United States (1994-2009) *Tejas Patel, Hafiz Khan, Zubeda Sheikh, Nizar Souayah*

**P06.265** Penetrating Traumatic Brain Injury: A 10-Year Experience *Henry Park, Deborah Stein, Joseph Kufera, Bizhan Aarabi, Thomas Scalea, Kevin Sheth*

**P06.266** Non-Convulsive Status Epilepticus in Liver Transplant Patients *Grigor Harutunian, Linda Sher, Laura Kalayjian*

**P06.267** Mortality and Penetrating Traumatic Brain Injury: Analysis of a 10 Year Cohort *Henry Park, Deborah Stein, Joseph Kufera, Bizhan Aarabi, Thomas Scalea, Kevin Sheth*

**P06.268** Epidemiology of Status Epilepticus after Cardiac Arrest and Impact on In-Hospital Mortality *Meredith Snapp, Mitchell Maltenfort, Matthew Vibbert, Jacqueline Urtecho, Jack Jallo, Rodney Bell, Michael Sperling, Fred Rincon*

**P06.269** Predictors of Abnormal Head CT Findings in Patients with Traumatic Brain Injury *Latha Stead, Tammy Ju, Heather Applewhite, Aakash Bodhit*

**P06.270** Trends in Outcomes and Hospitalization Charges among Mechanically Ventilated Adult Patients with Status Epilepticus in the United States (1994-2009) *Tarang Kheradia, Hafiz Khan, Zubeda sheikh, Anshul Saxena, Shahanara Islam, Nizar Souayah*

**P06.271** Treating Status Epilepticus in Specialized Versus General Intensive Care Units: Is Outcome Better? *Panayiotis Varelas, Tamer Abdelhak, Jesse Corry, Elysia James, Vivek Rai, Keyur Patel, Lonni Schultz, James Bartscher*

## Hot Topics in Education: Institute of Medicine Report on Epilepsy

Open to all Annual Meeting Attendees!

Monday, April 23

12:30 p.m.-1:30 p.m.

The Hot Topics in Education Session will address the just-released (April 2012) Institute of Medicine (IOM) report on the public health dimensions of epilepsy with a focus on four areas: Public health surveillance and data collection and integration; Population and public health research; Health policy, health care, and human services; and Patient, provider, and public education. The session will provide a unique forum combining a didactic overview on why the Institute of Medicine panel responsible for the report was convened, and to present an overview of their process. The overview will be followed by a moderated panel discussion. The session will end with audience questions and answers for a lively discussion on interpretations of and recommendations regarding the IOM report.

Thursday, April 26

# Frontiers in Translational Neuroscience Plenary Session

9:00 a.m. – 11:00 a.m.



**Moderator: Natalia Sana Rost, MD**  
**Member, Science Committee**

This session focuses on translational research related to clinical issues of importance. Four physician scientists outline their recent research findings, along with the clinical implications.



**Exercise and Parkinson's Disease: Studies with Animal Models**

Michael J. Zigmond, PhD  
*University of Pittsburgh, Pittsburgh, PA*



**Translational Therapeutics Development at NIH**

Christopher P. Austin, MD  
*National Institutes of Health, Rockville, MD*



**Translational Approaches with Signal Transduction Inhibitors in Glioblastoma: Lessons Learned from Bench to Bedside and Back Again**

Timothy F. Cloughesy, MD  
*University of California, Los Angeles, CA*



**Molecular and Functional Imaging Detection of Preclinical Alzheimer's Disease**

Reisa A. Sperling, MD  
*Harvard University, Boston, MA*

**For Full Abstracts and Bios for Plenary Speakers Visit [www.aan.com/view/plenary](http://www.aan.com/view/plenary)**



- S41 Multiple Sclerosis: Clinical Trials: Safety**
- 1:00 p.m. S41.001**  
Updated Incidence of Progressive Multifocal Leukoencephalopathy in Natalizumab-Treated Multiple Sclerosis Patients Stratified by Established Risk Factors *Gary Bloomgren, Sandra Richman, Christophe Hotermans, Meena Subramanyam, Amy Natarajan, Sophia Lee, Tatiana Plavina, James Scanlon, Alfred Sandrock, Carmen Bozic*
- 1:15 p.m. S41.002**  
Anti-JCV Antibody Prevalence in Patients with Relapsing Multiple Sclerosis Receiving or Considering Treatment with Natalizumab: Baseline Results of STRATIFY-2 *Carmen Bozic, Sandra Richman, Tatiana Plavina, Amy Natarajan, James Scanlon, Meena Subramanyam, Alfred Sandrock, Gary Bloomgren*
- 1:30 p.m. S41.003**  
Cardiac Safety of Fingolimod 0.5 mg during the First Dose Observation in 4-Month, Open-Label, Multi-Center FIRST Study in Patients with Relapsing MS *Giancarlo Comi, Ludwig Kappos, Jacqueline Palace, Rebecca Gottschalk, Mahendra Bijamnia, Astrid Keil, Davorka Tomic, Philipp von Rosenstiel, Ralf God*
- 1:45 p.m. S41.004**  
Long-Term Efficacy and Safety of Fingolimod (FTY720) in Relapsing-Remitting Multiple Sclerosis (RRMS): Results from the Extension of the Phase III FREEDOMS Study *Ludwig Kappos, Ernst-Wilhelm Radue, Paul O'Connor, Chris Polman, Reinhard Hohlfeld, Peter Calabresi, Krzysztof Selmaj, Catherine Agoropoulou, James Jin, Lixin Zhang-Auberson, Gordon Francis*
- 2:00 p.m. S41.005**  
Safety and Tolerability of BG-12 in Patients with Relapsing-Remitting Multiple Sclerosis (RRMS): Analyses From the CONFIRM Study *J. Theodore Phillips, Robert Fox, David Miller, Mariko Kita, Michael Hutchinson, Eva Havrdova, Kartik Raghupathi, Huixing Yuan, Mark Novas, Vissia Vigiuetta, Katherine Dawson*
- 2:15 p.m. S41.006**  
Incidence of Autoimmunity in a Phase 3 Trial: Comparison of Alemtuzumab and Rebif® Efficacy in Multiple Sclerosis I (CARE-MS I) *Krzysztof Selmaj, Douglas Arnold, Vesna Brinar, Jeffrey Cohen, Alasdair Coles, Christian Confavreux, Edward Fox, Gavin Giovannoni, Hans Hartung, Eva Havrdova, Miroslav Stojanovic, Howard Weiner, Stephen Lake, David Margolin, Pedro Oyuela, Michael Panzara, Alastair Compston*
- 2:30 p.m. S41.007**  
Infections in Phase 3 Study: Comparison of Alemtuzumab and Rebif® Efficacy in Multiple Sclerosis I (CARE-MS I) *Eva Havrdova, Douglas Arnold, Jeffrey Cohen, Alasdair Coles, Christian Confavreux, Edward Fox, Hans Hartung, Krzysztof Selmaj, Howard Weiner, Vesna Brinar, Gavin Giovannoni, Miroslav Stojanovic, Stephen Lake, David Margolin, Pedro Oyuela, Michael Panzara, Alastair Compston*
- S42 Epidemiology of Parkinson's Disease**
- 1:00 p.m. S42.001**  
Seborrheic Dermatitis and Risk of Future Parkinson's Disease (PD) *Caroline Tanner, Kathleen Albers, Samuel Goldman, Robin Fross, Amethyst Leimpeter, Jeffrey Klingman, Stephen Van Den Eeden*
- 1:15 p.m. S42.002**  
Clinical and Genetic Characteristics of Participants with Juvenile PD: The CORE-PD Study *Roy Alcalay, Liency Rosado, Helen Mejia-Santana, Martha Orbe-Reilly, Elise Caccappolo, Mingxin Tang, Diana Ruiz, Barbara Ross, Mlguel Verbitsky, Sergey Kisselev, Elan Louis, Cynthia Comella, Amy Colcher, Danna Jennings, Martha Nance, Susan Bressman, William Scott, Caroline Tanner, Howard Andrews, Cheryl Waters, Stanley Fah, Lucien Cote, Steven Frucht, Blair Ford, Michael Rezak, Kevin Novak, Joseph Friedman, Ronald Pfeiffer, Laura Marsh, Bradley Hiner, Andrew Siderowf, Haydeh Payami, Eric Molho, John Nutt, Stewart Factor, Ruth Ottman, Lorraine Clark, Karen Marder*
- 1:30 p.m. S42.003**  
Paraquat Use Modifies the Association of Head Injury and Parkinson's Disease (PD) *Samuel Goldman, Freya Kamel, Grace Bhudhikanok, Monica Korell, Cheryl Meng, Kathleen Comyns, David Umbach, Jane Hoppin, Web Ross, Connie Marras, Meike Kasten, Anabel Chade, Dale Sandler, Aaron Blair, J. Langston, Caroline Tanner*
- 1:45 p.m. S42.004**  
Risk of Parkinson's Disease (PD) Associated with the Herbicide Paraquat Is Attenuated by High Dietary Intake of Polyunsaturated Fatty Acids (PUFAs) *Freya Kamel, Gina Richardson, David Umbach, Marie Richards, Grace Bhudhikanok, Aaron Blair, Anabel Chade, Kathleen Comyns, Samuel Goldman, Jane Hoppin, Meike Kasten, Monica Korell, Connie Marras, Cheryl Meng, G. Ross, J. Langston, Dale Sandler, Caroline Tanner*
- 2:00 p.m. S42.005**  
Association of Coffee and Caffeine Consumption with Brain Lewy Pathology in the Honolulu-Asia Aging Study *Web Ross, John Duda, Robert Abbott, Helen Petrovitch, Caroline Tanner, Kamal Masaki, Jane Ueyehara-Lock, Lenore Launer, Lon White*
- 2:15 p.m. S42.006**  
Substantia Nigra Depigmentation and Birth Cohorts: Remote Effect of Encephalitis Lethargica? *Nawaz Hack, Gregory Jicha, Annalisa Abell, Dean Dawson, Joseph Berger*
- 2:30 p.m. S42.007**  
Incidence and Distribution of Parkinsonism in Olmsted County Minnesota, 1991-2005 *Rodolfo Savica, Brandon Grossardt, J. Ahlskog, James Bowler, Walter Rocca*
- S43 Biology and Biomarkers of Cerebrovascular Disease**
- 1:00 p.m. S43.001**  
Optic Nerve and Gray Matter Diffusion Tensor Imaging in CADASIL *Kenneth Lee, Shanelle McGowan, Adil Javed, Jacqueline Bernard*
- 1:15 p.m. S43.002**  
Longitudinal Assessment of Coagulation System Potential after Altering Antiplatelet Therapy Following TIA or Ischemic Stroke: Results from the TRinity AntiPlatelet Responsiveness (TrAP) Study *W. Oliver Tobin, Justin Kinsella, Gerard Kavanagh, James O'Donnell, Rachel McGrath, D. Ronan Collins, Tara Coughlan, Desmond O'Neill, Bridget Egan, Sean Tierney, Martin Feeley, Raymond Murphy, Dominick McCabe*
- 1:30 p.m. S43.003**  
The Radiographic Natural History of Patients with a Single Intracranial Cavernous Malformation *S. Moore, Robert Brown, Teresa Christianson, Kelly Flemming*
- 1:45 p.m. S43.004**  
Transcranial Magnetic Stimulation Improves Fluency in Non-Fluent Aphasia after Stroke *Roy Hamilton, Jared Medina, Catherine Norise, Peter Turkeltaub, H. Coslett*
- 2:00 p.m. S43.005**  
Sneddon Syndrome without Antiphospholipid Antibodies in 55 Cases: Clinical, Radiological and Pathophysiological Features *Laure Bottin, Camille Frances, Dominique De Zuttere, Pierre-Yves Boelle, Ioan-Paul Muresan, Sonia Alamowitch*
- 2:15 p.m. S43.006**  
Serum Biomarkers in the Early Course of Ischemic Stroke: Hyperacute Detection of Neurofilament Heavy Chain *Johann Sellner, Amit Patel, Pooja Dassan, Martin Brown, Axel Petzold*
- 2:30 p.m. S43.007**  
Elevated Factor VIII Is Common in the Acute Phase of Ischemic Stroke and Is Associated with African American Race and Poor Outcomes *Tiffany Chang, Karen Albright, Rebecca Kruse-Jarres, Cindy Leissing, Sheryl Martin-Schild*
- S44 Genetics, Anatomy, and Behavior**
- 1:00 p.m. S44.001**  
The Neural Basis of Coordination in Social Decision-Making: Evidence from Lewy Body Spectrum Disorder *Rachel Goldmann Gross, Corey McMillan, Jessica Kitain, Katya Rassovsky, Robin Clark, Murray Grossman*
- 1:15 p.m. S44.002**  
Damage to White Matter Pathways in Chronic Visuospatial Neglect *Michel Thiebaut De Schotten, Francesco Tomaiuolo, Paolo Bartolomeo, Fabrizio Doricchi*
- 1:30 p.m. S44.003**  
Age-Related Changes in Selective Attention in the Very Old: A Bottom-Up or Top-Down Problem? *Tatyana Zhuravleva, Anna Haring, Brittany Alperin, Phillip Holcomb, Dorene Rentz, Kirk Daffner*
- 1:45 p.m. S44.004**  
Neuropsychiatric Features of C9ORF72 Mutation-Associated bvFTD and FTD-ALS *Leonel Takada, Sharon Sha, Katherine Rankin, Jennifer Yokoyama, Baber Khan, Anna Karydas, Jamie Fong, Mariely DeJesus-Hernandez, Nicola Rutherford, Matthew Baker, Rosa Rademakers, Giovanni Coppola, William Seeley, Adam Boxer, Bruce Miller*
- 2:00 p.m. S44.005**  
Inaccurate Evaluation of Functional Impairment in Neurodegenerative Disease Correlates with Prefrontal and Insular Atrophy *Tal Shany-Ur, Nancy Lin, Howard Rosen, Sarah Broicher, Lauren Nguyen, Pardis Poorzand, Scott Grossman, Bruce Miller, Katherine Rankin*
- 2:15 p.m. S44.006**  
Lateralisation of the Arcuate Fasciculus Predicts Aphasia Recovery at 6 Months *Stephanie Forkel, Flavio Dell'Acqua, Lalit Kalra, Steven Williams, Marco Catani*
- 2:30 p.m. S44.007**  
Spelling Errors in Primary Progressive Aphasia *Hyung Shim, Robert Hurlley, Emily Rogalski, M. Mesulam*
- S45 Neuro-oncology**
- 1:00 p.m. S45.001**  
Everolimus for the Treatment of Renal Angiomyolipoma in Patients with Tuberous Sclerosis Complex Being Treated for Subependymal Giant Cell Astrocytoma *David Franz, Elena Belousova, Michael Frost, Rachel Kuperman, Martina Bebin, Bruce Korf, Robert Flamini, Michael Kohman, Steven Sparagana, Joyce Wu, Tarek Sahmoud, Gaurav Shah, Sergiusz Jozwiak*
- 1:15 p.m. S45.002**  
Identifying the Anti-Tr Antigen in Paraneoplastic Cerebellar Degeneration *Peter Sillevius Smitt, Esther de Graaff, Peter Maat, Esther Hulsboom, Robert van den Berg, Jeroen Demmers, Casper Hoogenraad*
- 1:30 p.m. S45.003**  
Clinical Features of the Schwannomatosis Tumor Suppressor Syndrome: A Retrospective Analysis of 87 Patients *Vanessa Merker, Sonia Esparza, Miriam Smith, Anat Stemmer-Rachamimov, Scott Plotkin*
- 1:45 p.m. S45.004**  
Pilocytic Astrocytoma Survival in Adults: Analysis of the Surveillance, Epidemiology, and End Results Program of the National Cancer Institute *Derek Johnson, Paul Brown, Evanthia Galanis, Julie Hammack*
- 2:00 p.m. S45.005**  
Single- Versus Multi-Fraction Radiation Treatment for Metastatic Spinal Cord Compression: Functional Outcome Study *Mohamad Hegazy, Hanan Wahba*
- 2:15 p.m. S45.006**  
Preliminary Data from a Multicenter, Phase II, Randomized, Non-Comparative Clinical Trial of Radiation and Temozolomide with or without Vandetanib in Newly-Diagnosed Glioblastoma (GBM) *Eudocia Lee, Tracy Batchelor, Thomas Kaley, David Schiff, Andrew Lassman, Eric Wong, Tom Mikkelsen, Benjamin Purow, Jan Drappatz, Andrew Norden, Rameen Beroukhim, Stephanie Weiss, Brian Alexander, Christine McCluskey, Mary Gerard, Lynsey Teulings, Katrina Smith, Alona Muzikansky, Patrick Wen*
- 2:30 p.m. S45.007**  
Commonly Utilized Chemotherapy Treatments Cause Severe Hippocampal Neural Stem Cell Loss and Damage the Dendritic Spines of Hippocampal Neurons *Daniel Bota, Xing Gong, Guntas Kankar, Kaijun Di, Adrienne Andres, Mark Linskey*

- S46**  
**Epilepsy: Clinical**  
**1:00 p.m. S46.001**  
Recognition and Treatment of Prolonged Febrile Seizures; Results from the FEBSTAT Study *Syndi Seinfeld, John Pellock, Shlomo Shinnar, Dale Hesdorffer, Ruth Shinnar, Kathryn O'Hara, Douglas Nordli, L. Frank, William Gallentine, Solomon Moshe, Xiaoyan Deng, Shumei Sun*
- 1:15 p.m. S46.002**  
Quality of Life Outcomes in Adolescents with Childhood-Onset Epilepsy in Remission *Christine Baca, Barbara Vickrey, Stefanie Vassar, Anne Berg*
- 1:30 p.m. S46.003**  
Safety of Video-EEG Monitoring from the National Inpatient Sample *Nancy Hammond, Richard Dubinsky*
- 1:45 p.m. S46.004**  
The Utility of Ictal Magnetoencephalography in Localization of Ictal Onset *Mhd Rafeed Alkawadi, Cigdem Isitan, Richard Burgess, Andreas Alexopoulos*
- 2:00 p.m. S46.005**  
Discordance on fMRI and Wada Tests of Language Dominance in a Large Epilepsy Cohort *Jeffrey Binder, Julie Janecek, Sara Swanson, David Sabsevitz, Thomas Hammeke*
- 2:15 p.m. S46.006**  
Seizure Outcome and Memory Function after Multiple Hippocampal Transections *Emine Kahrman, Jonathan Miller, Robert Macinuas, Christopher Bailey, Philip Fastenau, Tanvir Syed, Shahram Amina, Adriana Tanner, Kristina Karanec, Hans Luders, Mohamad Koubeissi*
- 2:30 p.m. S46.007**  
Low Frequency Electrical Stimulation of White Matter Tracts in Intractable Mesial Temporal Lobe Epilepsy *Mohamad Koubeissi, Dominique Durand, Emine Kahrman, Tanvir Syed, Jonathan Miller, Hans Luders*
- S47**  
**Critical Care/Emergency Neurology/Trauma**  
**1:00 p.m. S47.001**  
Stratifying Patients at Risk for Neurologic Sequelae after Carbon Monoxide Poisoning by Monitoring Serum Bilirubin Response *Hiroshi Kuroda, Kazuo Fujihara, Shigeki Kushimoto, Masashi Aoki*
- 1:15 p.m. S47.002**  
Delirium Is Associate with Worse Functional Outcomes and Quality of Life after Intracranial Hemorrhage *Andrew Naidech, Neil Rosenberg, David Cella*
- 1:30 p.m. S47.003**  
Is Early Surgical Decompression for Traumatic Cervical Spinal Cord Injury (SCI) Feasible and Cost-Effective? *Julio Furlan, Michael Fehlings*
- 1:45 p.m. S47.004**  
Novel Treatment for Traumatic Brain Injury *Michael Kaufman, David Tiesma, Christian Kreipke*
- 2:00 p.m. S47.005**  
Timing and Dynamic Progression of EEG Patterns in Comatose Post-Cardiac Arrest Subjects Treated with Hypothermia *Alexandra Popescu, Clifton Callaway, Frank Guyette, Jon Rittenberger*
- 2:15 p.m. S47.006**  
Compromise to Structural and Functional Connectivity in Cognitive and Affective Networks after Traumatic Brain Injury (TBI) *Yujie Wang, Carlos Marquez De La Plata, Anne Hudak, Carol Moore, Caryn Harper, Ramon Diaz-Arastia*
- 2:30 p.m. S47.007**  
Advanced MRI Neural Network Analysis for Determining the Neuroanatomic Basis of Traumatic Coma *Brian Edlow, Emi Takahashi, Peter Cummings, Joshua Klein, Robin Haynes, Ona Wu, David Greer, Steven Greenberg, Hannah Kinney, Rebecca Folkert*
- S48**  
**Neuro-ophthalmology**  
**1:00 p.m. S48.001**  
The Optic Nerve Head Component: A Novel Electrophysiologic Marker of Optic Neuropathy in Multiple Sclerosis and Neuromyelitis Optica *Shin Beh, Zane Schnurman, Teresa Frohman, Amy Conger, Darrel Conger, Erich Sutter, Laura Balcer, Peter Calabresi, Elliot Frohman*
- 1:15 p.m. S48.002**  
Retinal Nerve Fiber Layer Alteration Differences between OCT and Scanning Laser Polarimetry with Optic Nerve Head Swelling *Mark Kupersmith, Randy Kardon, Mary Durbin*
- 1:30 p.m. S48.003**  
Longitudinal Study of Retinal Ganglion Cell Layer Thickness by OCT in Multiple Sclerosis *Emma Davies, Hiroshi Ishikawa, Kristin Galetta, Reiko Sakai, Daniel Feller, James Wilson, Maureen Maguire, Steven Galetta, Elliot Frohman, Peter Calabresi, Joel Schuman, Laura Balcer*
- 1:45 p.m. S48.004**  
Imbalance and Oscillopsia Due to Gentamicin Vestibulotoxicity (Unilateral and Bilateral) in 127 Patients *Rebekah Ahmed, Imelda Hannigan, Hamish MacDougall, Michael Halmagyi*
- 2:00 p.m. S48.005**  
Dynamic Properties of Saccades Identify Forms of Spinocerebellar Ataxia *Pamela Federighi, Stefano Ramat, David Zee, R. Leigh, Pietro Piu, Alessandra Rufa*
- 2:15 p.m. S48.006**  
The Association between Linear Retinal Pigment Epitheliopathy and the ALS/Parkinsonism-Dementia Complex of Guam *Shayna Afaisen, Jacque Duncan, John Steele, Yoav Ben-Shlomo*
- 2:30 p.m. S48.007**  
The Neuro-Anatomic Basis of Feature Saliency in Face Processing: An fMRI-Adaptation Study *Joshua Lai, Raika Pancaroglu, Ipek Oruc, Jason Barton, Jodie Davies-Thompson*
- S49**  
**Neural Repair**  
**1:00 p.m. S49.001**  
Treatment of Post Traumatic Stress Disorder (PTSD) Rather Than Presence of Neurological Deficits (NDs) Correlated with Improvement of Post-Concussive Symptoms (PCS) from Combat Mild Traumatic Brain Injury (mTBI) Incurred in Iraq or Afghanistan *Robert Ruff, Ronald Riechers, Suzanne Ruff, Xiao-feng Wang, Traci Piero*
- 1:15 p.m. S49.002**  
Predictive Validity and Sensitivity to Change of the Neurological Outcome Scale for Traumatic Brain Injury *Paolo Moretti, Stephen McCauley, Elisabeth Wilde, Harvey Levin, Guy Clifton*
- 1:30 p.m. S49.003**  
Neurological Deficits (ND) and Post Traumatic Stress Disorder (PTSD) Are Related to the Number of Episodes of Mild Traumatic Brain Injury (mTBI) in US Combat Veterans *Ronald Riechers, Robert Ruff, Suzanne Ruff, Xiao-feng Wang, Traci Piero*
- 1:45 p.m. S49.004**  
Do Racial Differences Influence Functional Outcomes in Patients with Acute Stroke Undergoing Inpatient Rehabilitation? *Meheroz Rabadi, Freny Rabadi, Gene Hallford, Christopher Aston*
- 2:00 p.m. S49.005**  
Moderate Walking Distances and Velocity Correlate with Function Comparable to 6 Minute Walk Test *Linda Lowes, Lindsay Alfano, Laurence Violette, Kevin Flanigan, Jerry Mendell*
- 2:15 p.m. S49.006**  
Disinhibitory Effect of Functional-rTMS Disinhibitory Alters Neuromotor Drive in Survivors of Stroke *Crystal Massie, Brian Tracy, Matthew Malcolm*
- 2:30 p.m. S49.007**  
Deep rTMS with H-Coil Associated with Rehabilitation Enhances Improvement of Walking Abilities in Patients with Progressive Multiple Sclerosis: Randomized, Controlled, Double Blind Study *Letizia Leocani, Arturo Nuara, Anna Formenti, Paolo Rossi, Abraham Zangen, Mauro Comola, Giancarlo Comi*
- S50**  
**Multiple Sclerosis: Imaging: Clinical Phenotype**  
**1:00 p.m. S50.001**  
MRI Characteristics of Malignant Multiple Sclerosis *Taha Gholipour, Svetlana Egorova, Velina Sevdalinova, Brian Healy, Rohit Bakshi, Charles Guttmann, Samia Khoury, Howard Weiner, Tanuja Chitnis*
- 1:15 p.m. S50.002**  
MRI Features Distinguish Monophasic ADEM from MS: Findings from a Canadian Cohort of Children with Incident CNS Demyelination *Leonard Verhey, Helen Branson, Manohar Shroff, David Callen, John Sled, Sridar Narayanan, Amit Bar-Or, Dessa Sadovnick, Douglas Arnold, Ruth-Ann Marrie, Brenda Banwell*
- 1:30 p.m. S50.003**  
Vitamin D Levels Are Associated with Disability and Brain Volume in Multiple Sclerosis *Ellen Mowry, Emmanuelle Waubant, Charles McCulloch, Mehul Sampat, Pamela Qualley, Robin Lincoln, Pierre-Antoine Gouraud, Alan Evangelista, Don Brennenman, Azadeh Beheshtian, Sara Lufriu, Stephen Hauser, Daniel Pelletier*
- 1:45 p.m. S50.004**  
Gender Based Differences in Clinical and MRI Outcomes in Multiple Sclerosis with Low Vitamin D *John Rose, Hanieh Seraj, Dee Huseby, Monica Rojas, Harry Hill, Noel Carlson*
- 2:00 p.m. S50.005**  
Radiologically Isolated Syndrome: Long-Term Follow Up in 75 Patients *Sabeen Lulu, Evanthea Bemitsas, Fen Bao, Megha Shah, Alexandros Tselis, Christina Caon, Rima Aronov, Omar Khan*
- 2:15 p.m. S50.006**  
Iron Deposition in the Subcortical Deep-Gray Matter of Pediatric Multiple Sclerosis Patients *Jesper Hagemeyer, E. Ann Yeh, Mari Heininen-Brown, Niels Bergsland, Michael Dwyer, Ellen Carl, Bianca Weinstock-Guttman, Robert Zivadinov*
- 2:30 p.m. S50.007**  
Diffusion Tensor Imaging: Abnormal White Matter at the Time of a First Attack Distinguishes Children with Multiple Sclerosis from Children with Monophasic Demyelination and from Healthy Children *Marina Sonkin, Vincentiu Tipu, Brenda Banwell, Sridar Narayanan, Rezwan Ghassemi, Douglas Arnold, John Sled*

## Integrated Neuroscience Session: RNA Metabolism in Neurodegeneration

Coordinators: Jeffery Vance, MD, PhD and Robert H. Brown, Jr., MD, D.Phil

### Invited Speaker Session\* / 1:00 p.m. – 3:00 p.m.

- 1:00 p.m. – 1:30 p.m.** Introduction to RNA and RNA Disorders of Metabolism *Robert H. Brown, Jr., MD, D.Phil*
- 1:30 p.m. – 2:00 p.m.** TDP and FUS Providing Insight Into ALS and FTD *Robert H. Baloh, MD, PhD*
- 2:00 p.m. – 2:30 p.m.** Lessons in RNA Metabolism: Myotonic Dystrophy *Charles A. Thornton, MD, FAAN*
- 2:30 p.m. – 3:00 p.m.** microRNA and Non-coding RNA in Neurodegeneration *Mohammad Faghihi, MD*

### Poster Rounds\* / 3:00 p.m. – 4:00 p.m.

- IN9-1.001** Clinical Heterogeneity in Familial Frontotemporal Dementia and Amyotrophic Lateral Sclerosis Caused by C9ORF72 Mutation *Ging-Yuek Hsiung, Mariely DeJesus-Hernandez, Howard Feldman, Pheth Sengdy, Phoenix Bouchard-Kerr, Emily Dwosh, Bonnie Leung, Alice Fok, Nicola Rutherford, Matt Baker, Rosa Rademakers, Ian R. A. Mackenzie*
- IN9-1.002** Regional Cytoplasmic TDP-43 Mislocalization Is Recapitulated in Non-Human Primate Mimicking ALS *Takanori Yokota, Hiroki Sasaguri, Takuya Ohkubo, Hidehiro Mizusawa*
- IN9-1.003** C9ORF72 in a Large Series of Italian and Sardinian Familial and Sporadic ALS Patients *Adriano Chio, Giuseppe Borghero, Mario Sabatelli, Massimo Corbo, Gabriele Mora, Fabio Giannini, Francesca Conforti, Silvana Penco, Andrea Calvo, Maura Pugliatti, Alessandra Sotgiu, Giancarlo Logroscino, Bryan Traynor, Alan Renton, Elisa Majounie, Giuseppe Lauria, Claudia Caponnetto, Jessica Mandrioli, Fabrizio Salvi, Paolo Volanti, Vincenzo La Bella, Maria Monsurro, Marcella Zollino, Irene Ossola, Maura Brunetti, Gabriella Restagno*
- IN9-1.004** Phenotype of Amyotrophic Lateral Sclerosis (ALS) and Frontotemporal Dementia with ALS (FTD/ALS) Associated with the GGGGCC Repeat Expansion in C9ORF72 (c9FTD/ALS) *Kevin Boylan, Mariely DeJesus-Hernandez, Beth Rush, Pamela Desaro, Amelia Johnston, Thomas Kryston, Nicola Rutherford, Matt Baker, Zbigniew Wszolek, Dennis Dickson, Rosa Rademakers*
- IN9-1.005** The Population Based Prevalence and Phenotype of 9p21 Hexanucleotide Repeats in ALS/FTD *Susan Byrne, Aleksey Shatunov, Peter Bede, Marwa Elamin, Catherine Lynch, Kevin Kenna, Russell McLaughlin, Niall Pender, Daniel Bradley, Ammar Al-Chalabi, Orla Hardiman*
- IN9-1.006** An ALS-FTD Patient Carrying a Double Pathogenetic Mutation of C9ORF72 and TARDBP: Case Report *Andrea Calvo, Giuseppe Borghero, Antonino Cannas, Maria Marrosu, Maria Murru, Gianluca Floris, Bryan Traynor, Alan Renton, Cristina Moglia, Antonio Canosa, Antonio Ilardi, Stefania Cammarosano, Maura Brunetti, Irene Ossola, Gabriella Restagno, Adriano Chio*
- IN9-1.007** Genetics of ALS in Italy: A Population-Based Study *Adriano Chio, Gabriella Restagno, Maura Brunetti, Irene Ossola, Andrea Calvo, Cristina Moglia, Bryan Traynor, Alan Renton, Elisa Majounie, Lucia Corrado, Sandra D'Alfonso, Gabriele Mora, Letizia Mazzini, PARALS Study Group*
- IN9-1.008** Aberrant Posttranscriptional Regulation and Protein Degradation of TDP-43 and FUS to Stress Response in ALS *Liang Lu, Lei Zheng, Ying Si, Zhongjie Chen, Wenyi Luo, Shin Oh, Peter King*
- IN9-1.009** Antemortem Characterization of a Kindred Carrying the Non-Coding GGGGCC Hexanucleotide Repeat Expansion in C9ORF72 *Anahita Adeli, Bradley Boeve, Mariely DeJesus-Hernandez, Matthew Baker, Nicola Rutherford, David Knopman, Robert Ivnik, Julie Fields, Ronald Petersen, Rosa Rademakers*
- IN9-1.010** Facial Onset Sensory and Motor Neuronopathy: A Neurodegenerative TDP-43 Proteinopathy? *E. Peter Bosch, Jennifer Tracy, Brent Goodman, P. James B. Dyck, Camilo Toro, Caterina Giannini*

### Data Blitz Session\* / 4:00 p.m. – 4:30 p.m.

- |  |   |  |  |
|--|---|--|--|
| <p><b>4:00 p.m.</b> <b>IN9-2.001</b><br/>A novel alternative splicing event rescues the mutant tdrdbp phenotype in a zebrafish model of TDP-43 related Amyotrophic Lateral Sclerosis (ALS) <i>Channa Hewamadduma, Andrew Grierson, Cecilia Moens, Luyuan Pan, Taylor Ma, Philip Ingham, Tennore Ramesh, Pamela Shaw</i></p> <p><b>4:05 p.m.</b> <b>IN9-2.002</b><br/>Identification of a Unique miRNA Signature in CD14<sup>+</sup>/CD16<sup>+</sup> Blood-Monocytes in ALS Subjects Identical to That Observed in SOD Mice <i>Oleg Butovsky, Shafiuddin Siddiqui, Galina Gabriely, Amanda Lanser, Ben Dake, Murugaiyan Gopal, Camille Doykan, Pauline Wu, Robert Lawson, James Berry, Anna Krichevsky, Merit Cudkowicz, Howard Weiner</i></p> | <p><b>4:10 p.m.</b> <b>IN9-2.003</b><br/>Neuropsychiatric Features of C9ORF72 Mutation-Associated bvFTD and FTD-ALS <i>Leonel Takada, Sharon Sha, Katherine Rankin, Jennifer Yokoyama, Baber Khan, Anna Karydas, Jamie Fong, Mariely DeJesus-Hernandez, Nicola Rutherford, Matthew Baker, Rosa Rademakers, Giovanni Coppola, William Seeley, Adam Boxer, Bruce Miller</i></p> | <p><b>4:15 p.m.</b> <b>IN9-2.004</b><br/>Neuroanatomical Signature of C9ORF72: A Comparison to MAPT, Progranulin and Sporadic FTD <i>Jennifer Whitwell, Stephen Weigand, Bradley Boeve, Matthew Senjem, Mariely DeJesus-Hernandez, Matthew Baker, David Knopman, Zbigniew Wszolek, Joseph Parisi, Dennis Dickson, Ronald Petersen, Rosa Rademakers, Clifford Jack, Keith Josephs</i></p> | <p><b>4:20 p.m.</b> <b>IN9-2.005</b><br/>Differential Effect of the C9ORF72 Hexanucleotide Repeat on Brain Morphology in bvFTD and FTD-ALS <i>Jennifer Yokoyama, Leonel Takada, Sharon Sha, Anna Karydas, Baber Khan, Jamie Fong, Mariely DeJesus-Hernandez, Nicola Rutherford, Matthew Baker, Rosa Rademakers, Giovanni Coppola, William Seeley, Adam Boxer, Bruce Miller, Katherine Rankin</i></p> |
|--|---|--|--|

### Panel Discussion / 4:30 p.m. – 5:00 p.m.

\*Speakers and titles are subject to change

## Poster Discussion Session: New Tools and Novel Insights

**PD7.001** Initiation Difficulty and Apathy in Behavioral Variant Frontotemporal Degeneration *Lauren Massimo, Brianna Morgan, Keerthi Chandrasekaran, Ashley Boller, Emily Camp, Katya Rascovsky, Murray Grossman*

**PD7.002** The Concurrent Validity and Neuroanatomical Correlates of the EXAMINER: An Executive Function Assessment Designed for Clinical Trials *Katherine Possin, Dan Mungas, Amanda LaMarre, Kristie Wood, Ashley Berhel, Lena Sinha, Joel Kramer*

**PD7.003** The Mental Status Tree: An Educational Tool *Shawn Smyth, Kirk Daffner, A. M. Barrett, Mary Quiceno, Anitha Rao-Frisch, Alan Lerner*

**PD7.004** Drawing as a Measure of Non-Verbal Categorical Fluency in Semantic Dementia *Danielle Weinberg, Ashley Boller, Andrew Taylor, Lisa Burkholder, Emily Camp, Brianna Morgan, Murray Grossman*

**PD7.005** Precuneus Glutamate and GABA Predict Default Mode Network Activity *Dimitrios Kapogiannis, David Reiter*

**PD7.006** Decreased Default Mode Network Activation during Personal Moral Judgment in Frontotemporal Dementia *Winston Chiong, Stephen Wilson, Mark D'Esposito, Juan Zhou, Scott Grossman, Pardis Poorzand, Bruce Miller, Katherine Rankin*

**PD7.007** Abstract Rule Learning: The Differential Effects of Lesions in Frontal Cortex *Andrew Kayser, Mark D'Esposito*

**PD7.008** The Effect of Parkin Mutation Status on Cognitive Functioning in EOPD Patients with Long Disease Duration: The CORE-PD Study *Elise Caccappolo, Roy Alcalay, Karen Marder, Mingxin Tang, Llency Rosado, Helen Mejia-Santana, Diana Ruiz, Martha Orbe-Reilly, Barbara Ross, Mlguel Verbitsky, Sergey Kisselev, Elan Louis, Amy Colcher, Cynthia Comella, Andrew Siderowf, Danna Jennings, Martha Nance, Susan Bressman, William Scott, Caroline Tanner, Susan Mickel, Cheryl Waters, Stanley Fahn, Lucien Cote, Steven Frucht, Blair Ford, Michael Rezak, Joseph Friedman, Laura Marsh, Bradley Hiner, Haydeh Payami, Eric Molho, Ruth Ottman, Lorraine Clark*

**PD7.009** Age-Related Changes in the Processing of To-be-Ignored Stimuli: Preserved Selective Attention Does Not Prevent Subsequent Allocation of Excessive Processing Resources *Brittany Alperin, Anna Haring, Tatyana Zhuravleva, Phillip Holcomb, Dorene Rentz, Kirk Daffner*

**PD7.010** Proximity Dependent Attentional Biases in Patients with a Chronic Stroke *Salsabil Haque, John Williamson, David Burtis, David Estalilla, Kenneth Heilman*

## Brain Attack: Assessment and Management of Outcomes

**P07.001** Prevalence of Stroke and Transient Ischemic Attack in the Setting of Inflammatory Bowel Disease: A Retrospective Review *Neha Dangayach, Joanna Fong, Irene Katzan, David Rose, Rocio Lopez, Bo Shen, Michael DeGeorgia*

**P07.002** Attitudes of Neurologists and Nurses towards Prognosis and Quality of Life after Decompressive Hemicraniectomy after Space-Occupying MCA Infarction *Stefan Schwarz, Christine Kuehner*

**P07.003** Simplified Symptoms-Based Score for the Assessment of Ischemic Stroke Severity *Juan Racosta, Francisco Klein, Patricia Riccio, Fatima Pagani-Cassara, Maria Gonzalez Toledo, Francisco Muñoz Giacomelli, Agustín Jauregui, Luciano Sposato*

**P07.004** Immunotherapy for Stroke: A New Hope of Treatment *Richard Macrez, Gilles Defer, Denis Vivien, Carine Ali*

**P07.005** Abciximab after IV rt-PA for Fluctuating Lacunar Syndrome *Deepak Nair, Clayton McNeil, Rachel Wang, Jan Jahnel, Abby Tobin, Lauren Schaumberg, Kelsey Wilson, Bethany Stapel, Ammie Hodges, Judith Beck, Robyn Alanis, Arun Talkad, David Wang*

**P07.006** Transfer to Tertiary Care Hospitals Improve Outcome in Patients with Subarachnoid Hemorrhage but Not Intracerebral Hemorrhage *Mikael Grigoryan, Saqib Chaudhry, Muhammad Suri, Adnan Qureshi*

**P07.007** Vulnerability to Contralateral Pneumonia in Patients with Hemispheric Strokes *Daniel Franc, Saqib Chaudhry, Ameer Hassan, Asher Rizvi, Gustavo Rodriguez, Muhammad Suri, Adnan Qureshi*

**P07.008** An Analysis of Institutional Events Preceding TPA for Acute Ischemic Stroke *Shelly Ozark, Brian Silver, Todd Seigel, Jo-Ann Sarafin, Caryn Amedee*

**P07.009** Cerebral Venous Thrombosis: Descriptive Study of a Hospital Series *Alejandro Ponz De Tienda, Francisco Gascon, Ana Piera Blabastre, Raquel Chamarro, Rosario Gil, Miguel Lainez*

**P07.010** Stroke Awareness in the Saudi Arabia Community: Prompt Public Health Measures Must Be Implemented *Ahmed AlAqeel, AlBatool Al Ammari, Noura Alsyefi, Fawaz Al Hussain, Yousef Mohammad*

## Cerebrovascular Disease: The Less Common Conditions

**P07.011** Occurrence and Prognostic Significance of Pseudodissection Phenomenon Associated with Acute Distal Internal Carotid Artery Occlusion *Farhan Siddiq, Saqib Chaudhry, Paramita Das, Rakesh Khatri, Gustavo Rodriguez, Adnan Qureshi*

**P07.012** Homozygous Methylenetetrahydrofolate Reductase Mutation Causing Saddle Aortic Arch Embolus with Right Middle Cerebral Artery Infarct *Deepa Malaiyandi, Rochelle Sweis, Khaled Asi, Pramod Gupta, Dhruvil Pandya, Brian-Fred Fitzsimmons, Osama Zaidat*

**P07.013** Cerebral Venous Thrombosis and Paroxysmal Nocturnal Hemoglobinuria: A Retrospective Study on Twelve Cases *Elodie Meppiel, Isabelle Crassard, Régis Peffault de Latour, Gérard Socié, Marie-Germaine Bousser*

**P07.014** Discharge Destination as a Surrogate for Modified Rankin Scale Defined Outcomes at 3 and 12 Months among Stroke Survivors *Biggya Sapkota, Saqib Chaudhry, Gustavo Rodriguez, Muhammad Suri, Adnan Qureshi*

**P07.015** Variables That Best Differentiate Acute Stroke from Stroke Mimics in Inpatients with Acute Neurological Deficits *Christopher Newey, Dolora Wisco, Pravin George, James Gebel*

**P07.016** A Tertiary Care Center's Experience with Central Nervous System Vasculitis (CNSV) *Fawaz Al-Mufti, Nidhi Gupta, Patricia Coyle, David Harris, Karen Medin, Benny Kim*

**P07.017** A New Classification Scheme for Spinal Vascular Abnormalities Based on Angiographic Features *Adnan Qureshi*

**P07.018** Stroke Code Patients Are More Likely To Arrive at the Hospital by Ambulance on Weekends vs. Weekdays *Konrad Schlick, Rema Raman, Thomas Hemmen, Brett Meyer, Dawn Meyer, Karin Ernstrom, Bruce Ovbiagele*

**P07.019** Seeing Double: Intercavernous Sinus Dural Arteriovenous Fistula as a Rare Cause of Bilateral Abducens Palsy *Josephine Huang, Michel Toledano, Brian Katz, Giuseppe Lanzino, Brian Moseley*

**P07.020** The Interplay between the Electrocardiogram (ECG) QT Interval Dispersion and Acute Stroke: A Systematic Review *Yitzchok Lederman, Clotilde Balucani, Jason Lazar, Vincent Lee, Vanessa Arnedo, Catherine Lushbough, Steven Levine*

**P07.021** Susac Syndrome: Clinical Characteristics and Treatment in 29 New Cases *Farah Mateen, Alexander Zubkov, Rajanandini Muralidharan, Jennifer Fugate, Fausto Rodriguez, Jeffrey Winters, George Petty*

## Imaging of Brain, Blood Vessels and Emboli in Cerebrovascular Disease

**P07.022** Utility of a Physician Directed, Nurse Based Stroke Prevention Program *Kelly Flemming, Robert Brown*

**P07.023** Multi-Modal CT Delays Initiation of Intravenous rt-PA for Acute Ischemic Stroke *Amita Singh, Carol Raper, Lesia Mooney, Suzanne Shaw, James Meschia, Kevin Barrett*

**P07.024** International Normalized Ratio and In-Hospital Mortality of Subdural Hematoma *Maria Gonzalez Toledo, Juan Manuel Racosta, Agustín Jauregui, Francisco Muñoz Giacomelli, Fatima Pagani Cassara, Analia Calle*

**P07.025** Erectile Dysfunction (ED) after Ischemic Stroke – Association between Prevalence and Localization of Lesion *Max Hilz, Martina Schramm, Carl Cordel, Dimitre Staykov, Elisabeth Pauli, Peter Kolominsky-Rabas, Stefan Schwab, Ingrid Wagner*

## Poster Session VII

**P07.026** New Onset Atrial Fibrillation. Changing the Pathophysiological Paradigm: Neurogenic Origin in Younger Patients with a Healthy Heart? *Francisco Muñoz Giacomelli, Francisco Klein, Patricia Riccio, Juan Racosta, Agustín Jauregui, Fatima Pagani-Cassara, Maria Gonzalez Toledo, Luciano Sposato*

**P07.027** Non-Hospitalized Stroke: Patient's Underestimation or Doctor's Misdiagnosis? *Claudia Alonzo, Maria Zurru, Laura Brescacin, Silvina Brienza, Rocio Martinez, Fabiana Ortega, Gabriela Orzuza, Victor Villarroel, Luis Camera, Gabriel Waisman, Edgardo Cristiano*

**P07.028** Cerebral Venous Thrombosis: The Problem of Timely Diagnosis and Treatment *Borna Bonakdarpour, Tanya Lin, Kai Denski, Swapna Putta, Bruce Coull*

**P07.029** Posterior Circulation Ischemic Stroke – Clinical Characteristics, Risk Factors and Subtypes: A Prospective Study *Rajeev Nayak, Manmohan Mehndiratta, Sanjay Pandey, Prachi Mehndiratta*

**P07.030** Cost-Effectiveness of Intracranial Stent Placement Versus Optimal Medical Management in Patients with Symptomatic Intracranial Stenosis *Amir Khan, Adnan Qureshi*

**P07.031** Cocaine Use and the Likelihood of Cardiovascular and All-Cause Mortality: Data from the Third National Health and Nutrition Examination Survey Mortality Follow-Up Study *Adnan Qureshi, Muhammad Suri*

**P07.032** The Relationship between Acute Stress Hyperglycemia and Infarct Volume in Ischemic Stroke *Johanna Helenius, Ross Avery, Bethany Polnar, J. Alfredo Caceres, Matthew Siket, A. Y. Hakan*

**P07.033** The Presence of Intracranial Vascular Calcification May Protect Against Vasospasm Following Subarachnoid Hemorrhage *Yousef Mohammad, Joya Paul, Shyam Prabhakaran, S. Bhabad, Mohamed Zghouzi, Bichun Ouyang*

**P07.034** WITHDRAWN

**P07.035** Role of Mean Transit Time (MTT) Perfusion Map on the Aquilion ONE CT Scanner Using SVD+ Algorithm in Acute Stroke *Haiham Dababneh, Waldo Guerrero, Kelvin Wilson, J. Mocco, Jeffery Bennett, Brian Hoh, Anna Yuzefovich-Khanna, Keith Peters, Michael Waters*

**P07.036** The Incidence and Predictors of Acute Infarction in Patients with Transient Ischemic Attack Using Magnetic Resonance Imaging Including Diffusion-Weighted Imaging. QugSS2-Registry *Mohamed Al-Khaled, Jürgen Eggers*

**P07.037** Microembolus Detection by Transcranial Doppler Ultrasound Monitoring *Mambakkam Sivakumar, Shrvan Sivakumar*

**P07.038** High Resolution Imaging of Brain Vessels at 7 Tesla *Julien Sein, Saqib Chaudhry, Shahram Majidi, Masaki Watanabe, Neuman Tariq, Eddie Auerbach, Kami Ugurbil, Pierre-Francois Van de Moortele, Muhammad Suri*

**P07.039** Correlations between Both MRS and DTI with Cognitive Function in Patients with Diabetes Mellitus *Lan Mei Chen, Hong Yi Zheng, Yan Ting Wang, Wen Bin Zheng*

**P07.040** Prognostic Utility of Immediate Post-Procedural Head Computed Tomographic Scan after Endovascular Treatment of Acute Ischemic Stroke *Swaroop Pawar, Vikram Jadhav, Saqib Chaudhry, Ameer Hassan, Gustavo Rodriguez, Muhammad Suri, Adnan Qureshi*

**P07.041** Clinical and Radiologic Spectrum of Corpus Callosum Infarctions: A Case Series *Santosh Murthy, Mohamad Chmayssani, Shreyansh Shah, Corey Goldsmith, Joseph Kass*

### Cerebrovascular Epidemiology

**P07.042** Primary Angiitis of the Central Nervous System Presenting with Microhemorrhages on Gradient Echo Imaging *Michel Toledano, Jonathan Smith, Radhika Dhamija, Lyell Jones, Brian Moseley*

**P07.043** Predictive Factors for the Recurrence of Noncardioembolic Ischemic Stroke Associated with Antiplatelet Failure *Dong Hyun Lee, Tae-Hun Hur, Jeong-Ho Park, Sun-Ah Park, Tae-Kyeong Lee, Ki-Bum Sung*

**P07.044** High Intake of Caffeine Use Is Protective in Survivors of Stroke and Myocardial Infarction: The Results of Third National Health and Nutrition Examination Survey Mortality Follow-Up Study *Muhammad Suri, Adnan Qureshi*

**P07.045** Unchanging Incidence of Ischemic Stroke in Patients with Sickle Cell Disease in the Post STOP I and II Era *Andrew Martin, Ameer Hassan, Saqib Chaudhry, Adnan Qureshi*

**P07.046** Early Access to a Neurologist Reduces the Rate of Stroke Misdiagnosis in Young Adults *Wazim Mohamed, Ariel Majihoo, Seemant Chaturvedi*

**P07.047** A Pilot Population-Based Outcomes Study Using a Health Information Exchange (HIE): Demographic Comparison of Groups *Brett Kissela, Kathleen Alwell, Jane Khoury, Charles Moomaw, Peter Embi, Eric Rademacher, Christopher Lindsell, Daniel Woo, Matthew Flaherty, Pooja Khatri, Opeolu Adeoye, Simona Ferioli, Dawn Kleindorfer*

**P07.048** Persistent Depression after Acute Stroke Predicts Dementia *Brendan Kelley, Heidi Sucharew, Kathleen Alwell, Charles Moomaw, Eric Rademacher, Peter Embi, Jane Khoury, Christopher Lindsell, Daniel Woo, Matthew Flaherty, Pooja Khatri, Opeolu Adeoye, Simona Ferioli, Dawn Kleindorfer, Brett Kissela*

**P07.049** Potential Synergy between Advanced Primary Stroke Centers and Level I or II Trauma Centers in United States *Asif Khan, Saqib Chaudhry, Ameer Hassan, Gustavo Rodriguez, M. Fareed Suri, Kamakshi Lakshminarayan, Adnan Qureshi*

**P07.050** Stroke Risk Factors and Ischemic Subtypes in a Multiethnic Population in Central and East Brooklyn *Kessarar Panichpisal, Eghosa Omoregie, Andres Rodriguez, Harini Sarva, Susan Law, Diana Rojas-Soto, Christopher Dardis, Darwin Ramirez-Abreu, Claude Nguyen, Amarjeet Sareen, Magdalena Kotseva, Sheba Cherian, Yogesh Moradiya, Ariel Antezana, Sebina Bulic, Cindy Jadoo, Johanne Personna-Policard, Volodymyr Vulkanov, Ali Emami, Kapil Arya, Suda Jirasakuldej, Olga Kozlova, Sherene McIntyre, Lorraine Thomas, Daniel Rosenbaum, Steven Levine, Alison Baird*

**P07.051** Sources of Knowledge for Stroke Warning Signs and Risk Factors within a Population *Jacqueline Green, Jane Khoury, Eric Rademacher, Daniel Woo, Pooja Khatri, Matthew Flaherty, Opeolu Adeoye, Simona Ferioli, Brett Kissela, Dawn Kleindorfer*

**P07.052** Vitamin D Intake: A Novel Neuroprotectant? *Suzanne Judd, Anh Le, Dawn Kleindorfer, Orlando Gutierrez, Paul Muntner, Brett Kissela, Frederick Unverzagt, Nancy Jenny, Virginia Wadley*

### Multiple Sclerosis: Progressive Multifocal Leukoencephalopathy

**P07.053** Natalizumab-Associated Progressive Multifocal Leukoencephalopathy: Lessons from Four Different Cases *Maria Travarasou, Ermioni Giannouli, Themistokles Kalamatas, Stella Marousi, Andreas Ladas, Charikleia Zografou, Eirini Vrentzou, Christiana Samara, Clementine Karageorgiou*

**P07.054** Assessment and Concordance of Serum Anti JC Virus Antibodies and JCV DNA Presence in Multiple Sclerosis Natalizumab Treated Patients *Roberta Lanzillo, Luca Vallefuoco, Raffaele Liuzzi, Anna Guacci, Luca Amato, Giovanni Vacca, Giuseppe Orefice, Giuseppe Portella, Vincenzo Brescia Morra*

**P07.055** Inflammatory Variant of Progressive Multifocal Leukoencephalopathy; in a Patient with Early Systemic Lupus Erythematosus *Karen Medin, Patricia Coyle, Roberta Seidman, Fawaz Al-Mufti, Benny Kim*

**P07.056** Accurate Risk Assessment for the Development of PML in Natalizumab Treated MS Patients Requires CSF Analysis *Margaret Bettin, Jerry Lin, Saud Sadiq*

**P07.057** PML MRI Patterns in MS Patients Treated with Natalizumab: An Update of Natalizumab PML-MRI Guidelines *Tarek Yousry, Daniel Pelletier, Diego Cadavid, Achim Gass, Nancy Richert, Ernst-Wilhelm Radue, Massimo Filippi*

**P07.058** Classification of Natalizumab Cases with Progressive Multifocal Leukoencephalopathy *Tuan Dong-Si, Thomas Weber, Nancy Richert, Grainne Quinn, John Barnard, Mariska Kooijmans-Coutinho, Carmen Bozic, Gary Bloomgren, Sandra Richman, David Clifford*

**P07.059** Subtle Lesion Appearance on MRI May Precede Development of Progressive Multifocal Leukoencephalopathy in Multiple Sclerosis Patients Treated with Natalizumab *David Hojnacki, Robert Zivadinov, Bianca Weinstock-Guttman*

**P07.060** Successful Treatment of Natalizumab Induced PML with CMX001 and the Side Effects Associated with Its Use *David Hojnacki, Robert Zivadinov, Bianca Weinstock-Guttman*

**P07.061** MRI and DTI Characteristics of Natalizumab Associated PML during a Novel Treatment Protocol *Adil Javed, Michael Ko, Roumen Balabanov, Dusan Stefoski*

**P07.062** Novel Interventions with Favorable Resolution of Natalizumab-Induced Progressive Multifocal Leukoencephalopathy (PML) *Dusan Stefoski, Michael Ko, Adil Javed, Roumen Balabanov*

### Multiple Sclerosis: Neuromyelitis Optica

**P07.063** A Mother-Daughter Pair with Neuromyelitis Optica Spectrum Disorder *Christina Azevedo, Claire Riley*

**P07.064** Syndrome of Inappropriate Antidiuresis May Herald or Accompany Neuromyelitis Optica *Raffaele Iorio, Claudia Lucchinetti, Vanda Lennon, Chiara Costanzi, Shannon Hinson, Brian Weinshenker, Sean Pittock*

**P07.065** Olfactory Dysfunction in Different Subtypes of Multiple Sclerosis and in Neuromyelitis Optica *Felix Schmidt, Oender Goektas, Friedemann Paul, Lutz Harms*

**P07.066** Periependymal Abnormalities in Neuromyelitis Optica Spectrum Disorders and Multiple Sclerosis: A Case-Control Study *Eytan Raz, Ilya Kister, Mirza Omari, Joseph Herbert, Yvonne Lui, John Loh*



## Poster Session VII

**P07.067** Neuromyelitis Optica Experience in an Argentinian Neuroimmunology Clinic *Luciana Melamud, Sandra Vanotti, Andres Villa*

**P07.068** Prevalence of Serum Anti-Aquaporin4 Antibodies in Patients with HTLV-1 Associated Myelopathy Compared to Neuromyelitis Optica and NMO Spectrum Disorders in a Brazilian Tertiary Hospital. Preliminary Results *Felipe Von Glehn Silva, Sven Jarius, Augusto Penalva-de-Oliveira, Carlos Otavio Brandao, Alessandro Farias, Alfredo Damasceno, Adriel Moraes, Ana Leda Longhini, Klaus-Peter Wandinger, Benito Damasceno, Brigitte Wildemann, Leonilda Santos*

**P07.069** Systemic Autoantibodies in Neuromyelitis Optica: Is There Any Impact on Clinical Outcome? *Anna See, Wee Ming Peh, Kevin Tan*

**P07.070** Pain in Neuromyelitis Optica Is More Common, Disabling, and Refractory Compared to MS *Peiqing Qian, Anne Cross, Robert Naismith*

**P07.071** Ethnic Disparities in Outcomes and Resource Utilization in Neuromyelitis Optica Related Hospitalizations *Yogesh Moradiya, Ariel Antezana, Keyur Patel, Yaacov Anziska*

**P07.072** Clinical Description of Patients with the Neuromyelitis Optica Spectrum in a Tertiary Referral Center of Mexico *Lucia Magaña-Zamora, Ervin Chiquete, Rainier Rodriguez-Balaguer, Horacio Senties Madrid, Carlos Cantu-Brito*

### Multiple Sclerosis: Symptoms

**P07.073** Natural History of MS Symptoms: Perceived Disease Impact across Disease Span in Nine Neurologic Domains among Enrollees in North American Research Committee on Multiple Sclerosis (NARCOMS) Registry *Ilya Kister, Eric Chamot, Amber Salter, Gary Cutter, Tamar Bacon, Jennifer Kalina, Joseph Herbert*

**P07.074** A Prospective Study of Spasticity in Individuals with Multiple Sclerosis (MS) in Transition from Interferon-Beta to Glatiramer Acetate *Cira Fraser*

**P07.075** High Frequency and Adverse Impact of Vertigo and Dizziness in Multiple Sclerosis *Ruth-Ann Marrie, Gary Cutter, Tuula Tyyr*

**P07.076** Do Cerebellar Symptoms Predict Treatment Response to Prolonged-Release Fampridine in Multiple Sclerosis Patients? *Aksel Siva, Volker Limmroth, James Potts, Norman Putzki, Andrew Goodman*

**P07.077** Prevalence and Etiology of Sleep Disorders and Alertness in Multiple Sclerosis with Assessing the Impact on Quality of Life *Aur lie Basille-Fantinato, Abdullatif Al Khedr, Dominique Rose, Olivier Godefroy*

**P07.078** Relationship between Heat Intolerance and Response to Prolonged-Release Fampridine in Patients with Multiple Sclerosis *Tjalf Ziemssen, Thomas Berger, James Potts, Norman Putzki, Andrew Goodman*

**P07.079** Response to Prolonged-Release Fampridine in Multiple Sclerosis Patients with Various Walking-Related MS Symptoms *Christine Short, Norman Putzki, Andrew Goodman*

**P07.080** People with Multiple Sclerosis Show Improved Gait with Balance-Based Torso Weighting *Diane Allen, Anna-Maria Gorgas, Cynthia Gibson-Horn, Gail Widener*

**P07.081** Natalizumab Reduces Fatigue as Measured by the Fatigue Scale for Motor and Cognitive Functions (FSMC) – First Results from the TYNERGY Trial *Anders Svenningsson, Elisabeth Celius, Karen Schreiber, Siegrid Fuchs, Eva Falk, Sara Berk , Christian Max M ller, Iris Katharina Penner*

**P07.082** Impact of Relapses with Sequelae on Disability, Health-Related Quality of Life, and Fatigue in a Population with Relapsing Forms of Multiple Sclerosis Using Data from TEMSO, a Pivotal Phase III Teriflunomide Trial *Aaron Miller, Fred Lublin, Paul O'Connor, Christine Taniou, Catherine Dive-Pouletty*

### Multiple Sclerosis: CNS Mechanisms

**P07.083** Glutamatergic Homeostasis Impairment in Multiple Sclerosis Patients *Maira Gironi, Chiarapaola Zoia, Matilde Vaghi, Laura Mendozzi, Rosella Cavarretta, Maura Frigo, Guido Cavaletti, Carlo Ferrarese*

**P07.084** Beneficial Effect of IgG Glycan Hydrolysis by EndoS in Central Nervous System Autoimmunity *Nicolas Molnarfi, Mahdia Benkhoucha, Marie-Laure Santiago-Raber, Martin Weber, Matthias Collins, Patrice LaLive*

**P07.085** Mir-301a Regulation of the Development of a Th17 Response Controls Autoimmune Demyelination *Marcin Mycko, Maria Cichalewska, Agnieszka Machlanska, Hanna Cwiklinska, Magdalena Marasiewicz, Krzysztof Selmaj*

**P07.086** NKG2 Receptors Acquired by Activated Human CD4 T Cells Are Involved in Oligodendrocyte Destruction in the Context of MS *Fatma Zaguia, Jack Antel, Philippe Saikali, Nathalie Arbour*

**P07.087** Specificity and Potential Pathogenicity of Antibodies to a Central Nervous System (CNS) Autoantigen in Multiple Sclerosis Patients *Michael Levin, Sangmin Lee, Lidia Gardner, Yoojin Shin, Chassidy Groover, Joshua Douglas, Cedric Raine*

**P07.088** Search for Nodal and Paranodal Autoantibodies in Patients with Multiple Sclerosis *Haralambos Alexopoulos, Ioanna Chatzi, Pantelis Pavlakis, Sofia Akrivou, Domna Karagozeos, Clementine Karageorgiou, Marinos Dalakas*

**P07.089** Neurons Regulate Glial Cell Surface Proteome *Anshul Awasthi, Gregoire Morisse, David Colman, Ajit Dhaunchak, Amit Bar-Or*

**P07.090** Astrocytes Secrete Bridging Molecules That May Be Responsible for Increased Microglial Uptake of Apoptotic Inflammatory Cells *David Minwegen, Gereon Poschmann, Kai Stuehler, Simon Faissner, Aiden Haghikia, Helmut Meyer, Ralf Gold, Andrew Chan*

**P07.091** Neurotrophin Peptidomimetics Activate TrkA/B Signaling and Display Neuroprotective Effects in Neuroinflammation and Neurodegeneration *Pablo Villoslada, Beatriz Moreno, Valeria Colafrancesco, Ernest Giral, Merixell Teixido, Jose Maria Frade, Angel Messeguer*

**P07.092** Human Mesenchymal Stem Cells (MSC) Reciprocally Modulate Th1 and Th17 Responses: Role for PGE2 *Peter Darlington, Ayal Rozenberg, Marie-Noelle Boivin, Hillard Lazarus, Sarah Planchon, Jane Reese, Yi Ariel Liu, Jeffrey Cohen, Amit Bar-Or*

**P07.093** Innate Immunity Mediated Model of Primary Oligodendroglipathy *Subramaniam Sriram, Song-Yi Yao, Chandramohan Natarajan, Fanling Zhang*

### Multiple Sclerosis: Quality of Life

**P07.094** Multiple Sclerosis Patients Taking Disease Modifying Treatments Endorse Less Severe Symptoms and Improved Quality of Life Compared with Patients Not on Treatment *George Kraft, Alyssa Bamer, Kara McMullen, Dagmar Amtmann*

**P07.095** Structural Equation Modeling for Interventions To Improve Quality of Life in Patients with Multiple Sclerosis *Masaaki Niino, Hiromi Kikuchi, Nobuhiro Mifune, Seiji Kikuchi*

**P07.096** Health-Related Quality of Life Is Reduced in Multiple Sclerosis Patients Whose Walking Speed Declines over Time *Arun Krishnan, Andrew Goodman, James Potts, Jeffrey Cohen*

**P07.097** Relationship between Timed 25-Foot Walk Walking Speed and Health-Related Quality of Life in AFFIRM and SENTINEL *Chris Polman, Eva Havrdova, Christian Confavreux, Richard Rudick*

**P07.098** Daclizumab HYP Monotherapy Improved Health-Related Quality of Life Parameters in Relapsing-Remitting Multiple Sclerosis: Findings of the SELECT Trial *Krzysztof Selmaj, Eva Havrdova, Ralf Gold, Steven Greenberg, Kimberly Umans, Jacob Elkins*

**P07.099** Evaluation of the Quality of Life of Patients Affected by Multiple Sclerosis According to Their Own Perception and the Perception of Their Relatives *Hassna Mokadym, Antoine Baroin, Gilles Chopard, Annick Lavier, Eric Berger, Lucien Rumbach, Nathalie Rude*

**P07.100** Does Change in Patient-Reported QOL Correlate with Change in Other Clinical and MRI Measures in Early MS? Analysis of the 10-Year CHAMPIONS Cohort *Revere Kinkel, Genevieve Laforet, Xiaojun You*

**P07.101** Health-Related Quality of Life Predicts Disability in Multiple Sclerosis: A Longitudinal Prospective Study *Julian Benito-Leon, Alex Mitchell, Jesus Rivera-Navarro, Jose Manuel Morales-Gonzalez*

**P07.102** Effects of BG-12 on Quality of Life in Patients with Relapsing-Remitting Multiple Sclerosis: Findings from the DEFINE Study *Sonalee Agarwal, Ludwig Kappos, Ralf Gold, Douglas Arnold, Amit Bar-Or, Gavin Giovannoni, Krzysztof Selmaj, Jessica Kong, Sarah Sheikh, Katherine Dawson*

**P07.103** Examining Predictors of the Physical and Mental Components of Quality of Life in the TOP MS Study *Merrikay Oleen-Burkey, Howard Zwibel, Patricia Coyle, Douglas Denney*

## Poster Session VII

**Neuro-Oncology: Quality of Life and Epidemiology**

- P07.104** Interim Analysis of a Randomized Placebo-Controlled Pilot Trial of Armodafinil for Fatigue in Patients with Malignant Gliomas Undergoing Radiotherapy with or without Standard Chemotherapy Treatment *Samantha Hammond, Jan Drappatz, Eudocia Lee, Alona Muzikansky, Stephanie Weiss, Santosh Kesari, Eric Wong, Camilo Fadul, Andrew Norden, Rameen Beroukham, Brian Alexander, Sandra Ruland, Abigail Ciampa, Debra Lafrankie, Lisa Doherty, Christine McCluskey, Katrina Smith, Mary Gerard, Patrick Wen*
- P07.105** Frequency of Gastrointestinal Problems in Neurofibromatosis Type 1: The Johns Hopkins Experience *David Wolf, Amanda Bergner, Christiana Obeng, Jaishri Blakeley*
- P07.106** Frequency of the Metabolic Syndrome and Association with Survival in Newly Diagnosed GBM Patients: A Retrospective Review *Lisa Rogers, Jaime Vengoechea, Quinn Ostrom, Yanwen Chen, Perica Davitkov, Kyle Strodbeck, Warren Selman, Stanton Gerson, Charles Nock, Mitchell Machtay, Simon Lo, Andrew Sloan, Jill Barnholtz-Sloan*
- P07.107** Reasons To Visit the Neurologist in Patients with Systemic Cancer *Bernardo Cacho Diaz, Paola Flores-Gavilan, Angel Herrera, Gervity Reyes, Martin Granados*
- P07.108** Primary Brain and Central Nervous System Neoplasms in the Automated Central Tumor Registry: 2000-2010 *Brett Theeler, Mark Gilbert, Melissa Bondy*
- P07.109** Recursive Partitioning Analysis Identifies Prognostic Groups for Glioblastoma Patients Aged 70 Years or Older *Lakshmi Nayak, Jacob Scott, Luc Bauchet, Tyler Fraum, Anna Cooper, Samuel Chao, John Suh, Lauren Abrey, David Peereboom, Sonia Zouaoui, Pascale Fabbro-Peray, Luc Taillandier, Valerie Rigao, Michael Vogelbaum, Helene Mathieu-Daude, Lisa DeAngelis, Joanna Shih, Fabio Iwamoto*
- P07.110** Patterns of Care of Elderly Patients with Glioblastoma: Resource Implications from a Population-Based Study *Jennifer Singerman, James Perry, Arjun Sahgal, Todd Mainprize, Lawrence Paszat*
- P07.111** Elevated Preoperative Glucose Levels and Survival in Elderly Newly Diagnosed Glioblastoma Patients *Glen Stevens, Manmeet Ahluwalia*
- P07.112** Outcomes of Hospitalization in Pregnant Women with Brain Tumors: A Population-Based Study *Anna Terry, Fred Barker, Lisa Leffert, Brian Bateman, Irene Souter, Scott Plotkin*

**P07.113** Systematic Review of CNS Metastasis in Patients with Breast Cancer *Rezvan Azadi, Shivam Mittal, Fattaneh Tavassoli, Bahman Jabbari*

**Epilepsy: Epidemiology**

- P07.114** Human Immunodeficiency Virus Infection and Status Epilepticus in United States (2002-2009) *Saqib Chaudhry, Gustavo Rodriguez, Shahram Majidi, Scott Bundlie, Sheetal Patel, Ameer Hassan, M. Fareed Suri, Adnan Qureshi*
- P07.115** Age-Sex, Comorbidities, and Health Care Utilization of Individuals with Epilepsy Insured by Multiple U.S. Commercial Health Insurance Plans – A Descriptive Study *Andrew Wilner, Bal Sharma, Alison Soucy, Andrew Krueger*
- P07.116** Quality Indicators for Epilepsy Care in Zambia: Roadwork for the WHO Mental Health Gap Action Programme (mhGAP) Guidelines *Michelle Kvalsund, Edward Mbeve, Julius Mulenga, Marsharip Atadzhanov, Alan Haworth, Elwyn Chomba, Gretchen Birbeck*
- P07.117** Mortality in People with Epilepsy: A Prospective Study in a Prevalent Epilepsy Cohort in South India *Jagartapudi Murthy, Rohina Joshi, Bruce Neal, Vijay Seshadri, K. Rama Raju, P. Krishnam Raju*
- P07.118** Taking the Clinic to the Patient – Glimpses of Epilepsy Care by the Lifeline Express in Rural India *Mamta Singh, M. Padma, Kameshwar Prasad, Madhuri Behari, Rohit Bhatia*
- P07.119** Prevalence and Risk Factors of Seizures Following Ischemic Stroke in Patients with Chagas Disease *Francisco Carod*

**P07.120** Early Electroencephalography (EEG) in Patients with New-Onset Seizures: Diagnostic Yield and Impact on Clinical Decision-Making *Prakash Paliwal, Rahul Rathakrishnan*

**P07.121** Clinical and Electrical Profile of Patients with Juvenile Myoclonic Epilepsy *Navneet Kumar, Alok Verma, Gaurav Gupta, Puneet Dixit, Abhishek Shukla, Gyan Prakash, Kiran Patil, Nilesh Tawade*

**P07.122** Rates of Psychiatric and Medical Comorbidity in Patients with Seizure Disorder: Evidence from an Electronic Database *Matthew Eccher, Amanda Bengier, Joshua Liberman*

**P07.123** Change in Prevalence of Chronic Conditions over a Period of 14 Years in Patients with Epilepsy *Kitti Kaiboriboon, Paul Bakaki, Abdus Sattar, Nicholas Schiltz, Sasivimol Kosachunhanun, Siran Koroukian*

**Movement Disorders: Epidemiology of Parkinson's Disease**

- P07.124** Prevalence of Neurodegenerative Parkinsonism in the Isolated Population of South-Eastern Moravia, Czech Republic *Katerina Farnikova, Petr Jugas, Lenka Mikulicova, Josef Ovecka, Peter Kanovsky*
- P07.125** Diabetes Is Associated with Bradykinesia and Postural Instability and Gait Difficulty in Parkinson Disease Independent of Nigrostriatal Dopaminergic Denervation: A Case-Control Study *Vikas Kotagal, Roger Albin, Martijn Muller, Robert Koepp, Kirk Frey, Nicolaas Bohnen*
- P07.126** The Impact of MRI White Matter Hyperintensities on the Dementia in Parkinson's Disease in Relation to the Homocysteine Level and Other Vascular Risk Factors *Jaroslav Slawek, Anna Roszmann, Piotr Robowski, Mirosława Dubaniewicz, Emilia Sitek, Krystyna Honczarenko, Agnieszka Gorzkowska, Slawomir Budrewicz, Monika Mak, Monika Golab-Janowska, Marek Drozdziak, Mateusz Kurzawski, Tomasz Bandurski, Monika Bialecka*
- P07.127** Associations of Welding and Manganese Exposure with Parkinson's Disease: A Systematic Review and Meta-Analysis *James Mortimer, Amy Borenstein, Lorene Nelson*
- P07.128** Excessive Daytime Sleepiness and Neuron Loss in the Locus Coeruleus: The Honolulu-Asia Aging Study *Helen Petrovitch, Robert Abbott, Web Ross, Jane Uyehara-Lock, Kamal Masaki, Caroline Tanner, Lon White*
- P07.129** The Prevalence of Impaired Olfaction in Parkinson's Disease Is Higher Than Previously Estimated *Benjamin Bly, Martijn Muller, Roger Albin, Kirk Frey, Nicolaas Bohnen*
- P07.130** Prevalence Estimates of Parkinson Disease among American Indian and Alaska Native People *Paul Gordon, Jason Mehal, Robert Holman, Andrew Rowland, James Cheek*
- P07.131** Early-Adult Life Correlates of Personality in Parkinson's Disease *Kelly Sullivan, James Mortimer, Wei Wang, Theresa Zesiewicz, H. Brownlee, Amy Borenstein*
- P07.132** Premorbid Personality and the Risk of Parkinson's Disease *Kelly Sullivan, James Mortimer, Wei Wang, Theresa Zesiewicz, H. Brownlee, Amy Borenstein*
- P07.133** Occupational Characteristics and Patterns as Risk Factors for Parkinson's Disease *Amy Borenstein, Kelly Sullivan, Wei Wang, Theresa Zesiewicz, H. Brownlee, James Mortimer*

**P07.134** Head Injury and Parkinson's Disease *Jianjun Gao, Heidi Staub, Edward J. Zhao, Honglei Chen*

**Child Neurology/Developmental Neurobiology: Epidemiology**

- P07.135** NINDS Funding: Are Children (and Child Neurologists) Getting Their Share? *Andrea Pardo, Katrina Peariso, Tina Chen, David Huddleston, Donald Gilbert*
- P07.136** Trends in Outcomes and Hospitalization Charges among Non Mechanically Ventilated Pediatric Patients with Status Epilepticus in the United States (1994-2009) *Anshul Saxena, Hafiz Khan, Tarang Kheradia, Zubeda Sheikh, Shahanara Islam, Nizar Souayah*
- P07.137** Intrauterine Nicotine Exposure, Birth Weight, Gestational Age and the Risk of Infantile Colic. Does Central Nervous System Development Play a Role in Infantile Colic? *Ioanna Milidou, Tine Henriksen, Morten Jensen, Jørn Olsen, Charlotte Sandergaard*
- P07.138** Prevalence and Patterns of Developmental Delay in Multiple Gestation Preterm Infants *Alexandra Sibley, Laila Jarjour, Imad Jarjour*
- P07.139** Anti - N-Methyl-D-Aspartate (NMDA) Receptor Antibody Encephalitis: A Case Series of Pediatric Patients *Clarimar Borrero-Mejias*
- P07.140** Anti-NMDA Receptor Encephalitis in Children Is Associated with Variable Outcome *Gregory Aaen, David Michelson, Wendy De La Pena, Allison Przekop, Sarah Roddy, Stanford Shu, Stephen Ashwal*
- P07.141** Syringomyelia in Neurofibromatosis Type 1: True Association or Incidental Finding? *Partha Ghosh, A. Rothner, Manikum Moodley*
- P07.142** Childhood ADHD Diagnosis, Behaviors, and Motor Overflow Correlate with Slower Inter-Hemispheric Inhibitory Signaling as Measured with Transcranial Magnetic Stimulation *Donald Gilbert, Steve Wu, Nasrin Shahana, David Huddleston, Keri Shiels, Stewart Mostofsky*
- P07.143** Quantification of Dysrhythmia in Children with ADHD Using a Novel Automated Goniometer Method *Jennifer O'Malley, Steve Wu, David Huddleston, Stewart Mostofsky, Donald Gilbert*
- P07.144** Children with ADHD Show Increased Variability in Sequential Finger Movements *Stewart Mostofsky, Keri Shiels, Benjamin Dirlikov, Donald Gilbert*

## Poster Session VII

**Neurologic Manifestations of Systemic Disease: Clinical II**

- P07.145** Increased Cortical Excitability: A Mechanism for Alcohol Withdrawal Symptoms? *Radwa Badawy, Amanda Norman, Simon Vogrin, Richard Macdonell, Alan Lai B. Eng, Mark Cook, Jon Currie*
- P07.146** Oculofaciopalatal and Lingual Myoclonus with Two Separate Generators Following Brainstem Stroke *Liudmila Lysenko, Sushanth Bhat, Michael Rosenberg, Sudhansu Chokroverty*
- P07.147** Evolving Sjogren to POEMS Neuropathy Associated with a Large B-Cell Lymphoma: A Case Report *Meredith Snapp, Timothy Ambrose, Daniel Kremens, Michael Mamura, Goran Rakocevic*
- P07.148** Maternally Inherited Diabetes and Deafness (MIDD) Syndrome Associated with Myoclonus *Nicholas Blondin, Alexander Vortmeyer, Hajime Tokuno*
- P07.149** Painful Lumbosacral Plexopathy Resulting from Perineural Metastasis of Primary Squamous Cell Penile Carcinoma: A Case Report *Vivek Rai, Omar Ahmad, Arun Chandok*
- P07.150** An Unusual Cause of Left Hemiplegia in a Renal Transplant Patient *Danita Jones, Nestor Galvez-Jimenez*
- P07.151** Clinical and Electrophysiologic Characterization of Chronic and Critical Ischemic Monomelic Neuropathy after Revascularization: A Case Series *Nicholas Absalom, Gil Wolfe, Sharon Nations, Jaya Trivedi, Srikanth Muppidi*
- P07.152** Brainstem Strokes in a Pediatric Patient with Polyarteritis Nodosa: A Unique Case of CNS Vasculitis *Lori Noorollah, Ahmed Abdelmoity, Mark Hoeltzel*
- P07.153** Body Temperature and Lactic Acid Level as Prognostic Factors in Hypoglycemic Coma *Tetsuhiko Ikeda, Tetsuya Takahashi, Aki Sato, Hajime Tanaka, Shuichi Igarashi, Nobuya Fujita, Takeo Kuwabara, Masato Kanazawa, Masatoyo Nishizawa, Takayoshi Shimohata*
- P07.154** Neurosarcooidosis Revealed by Isolated Abducens Nerve Palsy *Jamuna Rajasingham, Nizar Souayah*
- Aging and Dementia: Clinical and Epidemiological Studies**
- P07.155** Does Progression and Mortality in Mild Cognitive Impairment Vary in Men and Women? The Mayo Clinic Study of Aging *Rosebud Roberts, Yonas Geda, David Knopman, Ruth Cha, Vernon Pankratz, Michelle Mielke, Bradley Boeve, Eric Tangalos, Robert Ivnik, Walter Rocca, Ronald Petersen*

- P07.156** Proactive Dementia Care: A Five-Year Experience in Dementia Caregiver Counseling *Edward Zamrini, Pramod Mandal, Troy Andersen, Cassidy Simpson, Angela Wang, Tom Greene, Jian Ying, Richard King, Norman Foster*
- P07.157** Medical Costs along the Trajectory of Cognitive Decline in the Elderly: A Population-Based Study *Cynthia Leibson, Kirsten Hall Long, Jeanine Ransom, Rosebud Roberts, Steven Hass, Amy Duhig, Carin Smith, Jane Emerson, Vernon Pankratz, Ronald Petersen*
- P07.158** The Relationship of Insulin Resistance with Cognitive Dysfunction Domain in Non-Diabetic MCI and AD Patients *Tae-eun Kim, Ji-Oh Mok, Chul-Hee Kim, Jeong-Ho Park, Tae-Kyeong Lee, Ki-Bum Sung, Sun-Ah Park*
- P07.159** Estrogen Receptor  $\beta$  Variants Modify Risk for Alzheimer's Disease in a Multiethnic Female Cohort *Sarah Janicki, Naeun Park, Rong Cheng, Joseph Lee, Nicole Schupf, Lorraine Clark*

- P07.160** Multidimensional Complexity in the Dementias: Diagnosis, Stage, Comorbidity, and Neuropsychiatric Symptoms *Tatiana Sadak, Walter Kukull, Soo Borson, Rebecca Logsdon, Barbara Cochrane, Jerald Herting*
- P07.161** Early-Life Sexual and Physical Abuse and Self-Perceived Cognitive Impairment in Mid-Adulthood *Amy Borenstein, Henian Chen, James Mortimer, Jocelyn Brown, Patricia Cohen*
- P07.162** Executive Dysfunction Precedes Memory Decline and Is Related to Increased Stress in Preclinical MCI *Michael Mega, Audrey Sherman, Patricia Luz, Lynette Rogers, Barbara Siaroff, Akiko Erwin, Elizabeth Baraban*
- P07.163** Orange County Vital Aging Program: A Community-Based Approach To Reduce Impact of Alzheimer's Disease on Health Care Resources *William Shankle, Junko Hara, Michael Brant-Zawadzki, Dennis Earle Fortier, Dori Holnagel, Celine Keeble, Nichole Guillen Nguyen*
- P07.164** Survey Cross-Sectional Prevalence Study of Dementia and Mild Cognitive Impairment. Pilot Study (Phase 1) *Ricardo Allegri, Carlos Melcon, Jaqueline Riquelme, Leonardo Bartoloni, Diego Sarasola, Claudio Gonzalez*

- Aging and Dementia: Frontotemporal Lobar Degenerations**
- P07.165** The Prodromal Phase of Frontotemporal Lobar Degeneration: Mild Cognitive Impairment of the FTLT Type *Kimiko Domoto-Reilly, Alyson Negreira, Michael Brickhouse, Daisy Sapolsky, Bradford Dickerson*

- P07.166** Behavioral Profiles Differ in Corticobasal Syndrome (CBS) and Behavioral Variant Frontotemporal Dementia (bvFTD) *Katya Rascovsky, Lisa Burkholder, Corey McMillan, Rachel Goldmann Gross, Ashley Boller, David Libon, Murray Grossman*
- P07.167** Primary Progressive Apraxia of Speech (PAS): A Distinct Neurodegenerative Syndrome *Keith Josephs, Joseph Duffy, Edythe Stand, Mary Machulda, Matthew Senjem, Ankit Master, Val Lowe, Clifford Jack, Jennifer Whitwell*
- P07.168** Handedness in FTLT *Zachary Miller, Katherine Rankin, Maria Gorno Tempini, Bruce Miller*
- P07.169** Neural Correlates of Repetitive/Aberrant Motor Behaviors in Behavioral Variant Frontotemporal Dementia (bvFTD) *Katya Rascovsky, Lisa Burkholder, Keerthi Chandrasekaran, Ashley Boller, Corey McMillan, David Libon, Murray Grossman*
- P07.170** Neuropsychiatric Inventory Profile in Frontal Dementias *John Papatriantafyllou, Apostolia Ghika, Theodoros Kontaxis, Niki Tsinia, Evi Lykou, Evaggelia Chatziantoniou, Dimitris Agiomyriannakis, Andreas Kyroziis, Sokratis Papageorgiou*
- P07.171** Nonfluent/Agrammatic Variant of PPA with a PIB Positive PET Scan and Pick's Disease Pathology *Francesca Caso, Benno Gesierich, Maya Henry, Amanda LaMarre, Gil Rabinovici, Stephen Wilson, Bruce Miller, William Seeley, Maria Luisa Gorno-Tempini*
- P07.172** Clinical, Neuroimaging, and Pathologic Features in a Group of Nonfluent Variant Primary Progressive Aphasia (nfvPPA) Studied Prospectively *Francesca Caso, Maya Henry, Benno Gesierich, Stephen Wilson, Nina Dronkers, Bruce Miller, William Seeley, Maria Luisa Gorno-Tempini*
- P07.173** Personality in Frontotemporal Dementia *Mariangeles Pose, Ezequiel Gleichgericht, Pablo Lopez, Teresa Torralva, Fernando Torrente, Federico Quaglia, Marcelo Cetkovich, Facundo Manes*
- P07.174** Coordination Limitations in Behavioral Variant Frontotemporal Dementia Have Consequences for Communication *Corey McMillan, Katya Rascovsky, M. Catherine Khella, Robin Clark, Murray Grossman*

- Behavioral Neurology: Other**
- P07.175** Rodent Model of the Effect of beta-Adrenergic Agents on Creative Problem Solving *David Beversdorf, Patrick Hecht, Jill Hampton, Todd Schachtman, Matthew Will*

- P07.176** Enhancement of Extinction Memory and Prefrontal Cortex Metabolic Capacity Via Low-Level Light Therapy *Julio Rojas-Martinez, Aleksandra Bruchey, F. Gonzalez-Lima*
- P07.177** Cortical Deafness: A Case of Selective Auditory Agnosia, Amusia and Word Deafness *Hunaid Hasan, Naufal Mohammed, Sean Hodgson, Jamie Silva, Chidam Yegappan, Michael Noseworthy*
- P07.178** Hand Preference in Developmental Stuttering: A Test of the Geschwind-Galaburda Hypothesis of Hemispheric Specialization *Jesus Lovera, David Corey, Anne Foundas*

- P07.179** Effect of Natalizumab on Cognitive Impairments in Relapsing Forms of Multiple Sclerosis *Barbara Jung, Nadine Longato, Catherine Kleitz, Laure Di Bitonto, Nadjette Cremel, Baradi Brice, Nicolas Collongues, Jerome De Seze, Frédéric Blanc*
- P07.180** Comparison of Quality of Life and Disability in Three Different Dementias *Renzo Figari-Jordan, Karen Anderson, Ann Gruber-Baldini, Stephen Reich, William Weiner, Paul Fishman, Lisa Shulman*
- P07.181** Cognitive and Neuropsychiatric Impairment in the Early Stages of Multiple Sclerosis: Longitudinal Follow-Up in a Latin American Cohort *Fernando Caceres, Sandra Vanotti, Ralph Benedict, RELACCEN Workgroup*
- P07.182** Acute Korsakoff's Psychosis and Disinhibition Syndrome Triggered by a Cortical Posterior Cerebral Artery Infarction *Smriti Agarwal, Mark Manford*
- P07.183** WITHDRAWN

**Behavioral Neurology: Frontal Lobe/Movement**

- P07.184** Behavioral and Neurostructural Markers of Emotion Recognition Impairment in Amyotrophic Lateral Sclerosis *Chiara Crespi, Chiara Cerami, Nicola Canessa, Alessandra Dodich, Sandro Iannaccone, Massimo Corbo, Christian Lunetta, Elisa Scola, Andrea Falini, Daniela Perani, Stefano Cappa*
- P07.185** Theory of Mind and Social Cognition in Huntington's Disease, Clinical Correlations – A Preliminary Report *Jose Luis Etcheverry, Ignacio Demei, Eva Ruotolo, Adriana Leis, Anabel Orellano, Sandra Vanotti, Silvia Vilas, Verónica Villar, Galeno Rojas, Virginia Parisi, Gabriel Persi, Ricardo Allegri, Emilia Gatto*
- P07.186** Dissociation of Verbal and Spatial Working Memory in the Fronto-Parietal Network *Jessica Shields, Jeffrey Mock, Anne Foundas*
- P07.187** Disordered Tactile Force Perception in Parkinson's Disease *Tigran Kesayan, Adam Falchook, John Williamson, Keith White, Frank Skidmore, Kenneth Heilman*

## Poster Session VII

**P07.188** Aprosodic Speech and Insular Lesions as Main Features of a Massive Tauopathy in Frontotemporal Dementia *Marian Gomez Beldarrain, Javier Ruiz Ojeda, Isidre Ferrer Abizanda, Alberto Cabrera, Juan Garcia Monco*

**P07.189** Parkinsonism-Dementia-ALS Complex (PDA) Phenotype in an African-American Patient *Darine Kassar, Stanley Iyadurai*

**P07.190** Severe Anxiety and Frontal Cognitive Dysfunction Herald a Progressive Supranuclear Palsy-Corticobasal Overlap Syndrome *Shawn Smyth, David Riley, Alan Lerner*

**P07.191** Cerebrovascular Diseases Complicating Ventriculoperitoneal Shunt Response in Secondary Normal Pressure Hydrocephalus *Anitha Rao-Frisch, Tanzila Shams, Shawn Smyth, Alan Lerner*

**P07.192** Comparison of Cognitive Functioning in Patients with Parkinson Disease and Frontotemporal Dementia Behavioral Variant *Jackeline Sturla, Facundo Manes, Anabel Chade, Teresa Torralva, Maria Roca*

**P07.193** Different Kinds of Impulsivity in Patients with Behavioral Variant Frontotemporal Dementia (bvFTD) *Teresa Torralva, Ezequiel Gleichgercht, Maria Roca, Facundo Manes*

**P07.194** The Utility of the INECO Frontal Screening (IFS) in the Detection of Executive Dysfunction in Patients with Traumatic Brain Injury (TBI) *Victoria Marengo, Maria Roca, Ezequiel Gleichgercht, Facundo Manes, Teresa Torralva*

### Sarcopenia, Muscle Atrophy, and Inherited Myopathy

**P07.195** A Neurotrophin Resistant Agrin Fragment (NT-1654) Reverts Both Impaired Performance and Muscle Pathology in Transgenic Mice Modelling Sarcopenia *Ruggero Fariello, Stefan Kucsera, Stefan Hettwer, Plus Dahinden, Jan Vrijbloed*

**P07.196** Thigh Muscle Mass Decline Was Associated Brain Small Vessel Diseases in Men: Possible Link between Sarcopenia and Dementia *Masayuki Ochi, Katsuhiko Kohara, Yasuharu Tabara, Rie Takita, Tokihisa Nagai, Nako Shinohara, Yoko Okada, Hirofumi Ochi, Michiyo Igase, Tetsuro Miki*

**P07.197** Evaluation of Muscle Atrophy: Comparison between Limb-Girdle Muscular Dystrophies, ALS and Metabolic Myopathies *Corrado Angelini, Marina Fanin, Enrico Peterle*

**P07.198** PET Imaging of Denervation-Induced Muscle Cell Death with <sup>18</sup>F-ML-10, a Novel Apoptosis Tracer *Ayelet Reshef, Miri Ben-Ami, Nanette Freedman, Tal Davidson, Eyal Mishani, Ilan Ziv*

**P07.199** Nerve-Stimulation-Induced Near-Infrared Optical Signals Distinguish Diabetic Muscles from Healthy Muscles *M. Erb, Jesse Macomber, Peter Bergethon*

**P07.200** Phosphoglucosyltransferase (PGM 1) Deficiency: A Novel Defect of Muscle Glycogen Degradation and Synthesis *Ronald Haller, Katja Heinicke, Marta Newby, Phil Wyrick, Ivan Dimitrov, Pedro Mancias, Jonathan Cohen*

**P07.201** McArdle Disease: Clinical Features, Muscle Biopsy and Molecular Genetics in Brazilian Patients *Paulo Lorenzoni, Rosana Scola, Claudia Kay, Raquel Amdt, Carlos Silvano, Lineu Wernick*

**P07.202** Lack of Myopathologic Changes in Clinically Unaffected Muscles in Patients with Late-Onset Pompe's Disease *Muhammad Al-Lozi, Alan Pestronk*

**P07.203** Core-Rod Myopathy Is a Genetically Heterogeneous Condition: Clinical and Morphological Analysis of a Cohort of Patients without Molecular Characterization *Edoardo Malfatti, Ana Lia Taratuto, Soledad Monges, Fabiana Lubieniecki, Tanya Stojkovic, Emmanuelle Lacene, Pascale Guycheney, Nicole Monnier, Norma Romero*

**P07.204** Neuromuscular Involvement in Choreoacanthocytosis *Carmen Paradass Lopez, Macarena Cabrera Serrano, Eloy Rivas Infante, Jose Manuel Morales, Celedonio Marquez, Benedik Bader, Pablo Mir*

### Mitochondrial Myopathies

**P07.205** PEO1 Gene (Twinkle) Mutation and Multi-Organ Failure Following Propofol Infusion *Rebecca Harrison, Jason Valerio, Frank Buffam, Michelle Mezei*

**P07.206** POLG-Related Disorders: Muscle Biopsy Findings, Mitochondrial DNA Content and Deletions *Margherita Milone, Sha Tang, Eric Sorenson, Niu Zhiyy, Lee-jun Wong*

**P07.207** POLG Mutation in a Patient with Cataracts, Early-Onset Distal Muscle Weakness and Atrophy and Ovarian Dysgenesis *Mir Reza Bekheirnia, Wei Zhang, Tanya Eble, Alecia Willis, Aziz Shaibani, Lee-jun Wong, Fernando Scaglia, Shweta Dhar*

**P07.208** The Molecular Etiology of Progressive External Ophthalmoplegia (PEO) Associated with Mitochondrial Myopathy *Sha Tang, Yu-Wen Huang, Margherita Milone, Lee-jun Wong*

**P07.209** MERRF and Kearns-Sayre Overlap Syndrome Due to the Mitochondrial DNA M.3291T>C Mutation *Valentina Emmanuele, David Silvers, Evangelia Sotiriou, Kurenai Tanji, Salvatore DiMauro, Michio Hirano*

**P07.210** Novel ND-5 Mutation in a Patient with Kearns-Sayre Syndrome Phenotype *Hans Shuhaiber, Vasileios-Arsenios Lioutas, Eleanor Orehek, Samuel Frank*

**P07.211** Nitric Oxide Synthesis and Apoptosis in Cells with Mitochondrial Abnormalities *Celia Tengan, Gabriela Rodrigues, Beatriz Kiyomoto, Acary Oliveira, Beny Schmidt, Alberto Gabbai, Rosely Godinho*

**P07.212** Development of Optimized Assays for Mitochondrial Respiratory Chain Enzymatic Activities in Muscle and Cells *Marco Spinazzi, Alberto Casarin, Vanessa Pertegato, Leonardo Salviati, Corrado Angelini*

**P07.213** Quantitative Analysis of Supercomplexes Using Coomassie-Stained Blue Native Gels *Lauren Mylacraine, John Shoffner*

**P07.214** Comprehensive Mitochondrial Haplogroup Analysis System Based on Suspension-Array Technology Using DNA from Formalin-Fixed Paraffin-Embedded Autopsy Tissues *Yutaka Nishigaki, Hiroko Hosoya, Makiko Naka-Mieno, Tomio Arai, Motoji Sawabe, Masashi Tanaka*

**P07.215** Molecular Diagnostic Approaches to Metabolic Myopathies by Target Gene Capture and Next Generation Sequencing *Victor Zhang, Hong Cui, Jing Wang, Lee-jun Wong*

### Inflammatory Myopathy

**P07.216** Rates of Adverse Events after High Dose IVIG Infusions Do Not Differ among Patients Receiving 2-Day Versus 5-Day Infusions *Gretchen Ayer, Gary Badger, Shafeeq Ladha*

**P07.217** Successful Use of Subcutaneous Immunoglobulin in Chronic Neurology Patients *Annette Zampelli, Lisa Zacek, Marie-Claude Levasseur*

**P07.218** CNS Disease as the Presenting Feature in Four Cases of Juvenile Dermatomyositis *Marcus Lee, Jake Bishop, V. Vedanarayanan*

**P07.219** A Retrospective Analysis of a Treatment Protocol of Juvenile Dermatomyositis with Intravenous Methylprednisolone, Intravenous Immunoglobulin, and Methotrexate *Amanda Witt, V. Vedanarayanan, Linda Ray, Asim Haque*

**P07.220** Anti-Synthetase Syndrome: An Under-Recognized Entity *Prachi Mehndiratta, Amtul Farheen, Numthip Chitravas, Mark Cohen, Bashar Katirji*

**P07.221** Clinical and Diagnostic Variability of Inclusion Body Myositis *Sara Khan, Lan Zhou*

**P07.222** Restrictive Ventilatory Defect in Patients with Inclusion Body Myositis *Puja Aggarwal, William Arnold, Jerald Reynolds, John Kissel, Bakri Elsheikh*

**P07.223** Is a Muscle Biopsy Necessary for the Diagnosis of Inclusion Body Myositis (IBM)? *Eric Lee, Nizar Chahin*

**P07.224** The Effect of Anakinra, an IL-1 Receptor Antagonist, in Patients with Inclusion Body Myositis (sIBM): A Small Pilot Study *Michalis Kosmidis, Haralampos Alexopoulos, Alexandros Drosos, Athanasios Tzioufas, Marinos Dalakas*

**P07.225** Twelve-Month Change of IBMFRS in the Arimocolomol Inclusion Body Myositis Pilot Study *Yunxia Wang, Jianghua He, April McVey, Mamatha Pasnoor, Philip Gallagher, Laura Herbelin, Jeffrey Statland, Adrian Miller, Linda Greensmith, Pedro Machado, Michael Hanna, Richard Barohn, Mazen Dimachkie*

### Neurologic Education: Stroke Education and Patient Education

**P07.226** Readability of Online Patient Education Materials for Peripheral Neuropathy *Nitin Agarwal, David Hansberry*

**P07.227** A Qualitative Characterization of Mentorship in Vascular Neurology *Brandon Minzer, Madeline Miley, Vladimir Hachinski, Bart Demaerschalk*

**P07.228** Simulation Based Training for Acute Stroke Alerts *Dan Capampangan, Joseph Hentz, Matthew Hoerth*

**P07.229** Age-Related Memory Loss and Alzheimer's Disease: A Randomized, Web-Based Educational Intervention Study *Marytery Fajardo, Richard Isaacson*

**P07.230** Novel Simulation Lab Exercises for Training Neurology Residents How To Manage Acute Stroke *Timothy Lukovits, Richard Goddeau*

**P07.231** A Novel Web Based Modified Rankin Scale Program for Certification and Patient Self Assessment Scoring in the Antihypertensive Treatment in Acute Cerebral Hemorrhage (ATACH II) Trial *Erik Maland, Rakesh Khatri, Bo Connelly, Saqib Chaudhry, Emily Abbott, Lawrence Algiers, Wodowossen Tekle, Amir Khan, Ameer Hassan, Adnan Qureshi*

**P07.232** Web-Based Neuro-Ophthalmic Patient Education *Pooja Pendi, Don Bienfang, Sashank Prasad*

### Neurologic Education: Resident and Fellow Education

**P07.233** Residents as Teachers: Disconnect between Faculty and Self Assessment of Skills *Lori Schuh, Iram Zaman, Linda Roth*

## Poster Session VII

**P07.234** The Clinical Skills Examination Training Program (CSET): An Interactive Training Exercise for Evaluators *Vicki Shanker, Joseph Kass, Sonja Potrebic, Matthew Abramowitz, Zachary London*

**P07.235** Low-Cost Diagnostic Gaming To Measure Symptom-Specific Diagnostic Reasoning Skills *Ali Saber Tehrani, Rodney Omron, Jordan Duval-Amould, Frederick Korley, Seung-han Lee, Alexander Tamnutzer, Michael Cohen, Patricia Abbott, Christoph Lehmann, Yu-Hsiang Hsieh, David Newman-Toker*

**P07.236** Retention of Lumbar Puncture Skills Gained by a Mastery Learning Approach Using Simulation Technology and Deliberate Practice *Peter Pressman, Brent Burroughs, Ramadevi Gourineni, Roneil Malkani, Tanya Simuni, William McGaghie*

**P07.237** Assessment of Handover Communication among Neurology Residents: Utilization of a Handover OSCE and a Standardized Curriculum To Improve Transitions of Care *Nicole Chiota, David McCollum, Elizabeth Mauricio, Rachel Ditrapani, David Capobianco, Kevin Barrett*

**P07.238** Measuring Handover Communication during Transition of Care from the Neurointensive Care Unit to the General Neurology Ward *Warren Carrigan, Jessica Floyd, Heidi Woessner, William Freeman, Kevin Barrett*

**P07.239** Medication Events on a Tertiary Neurology Inpatient Service *Lindsay Williams, Cynthia Sweeney, Jeffrey Britton*

**P07.240** Application of Team-Based Learning To Teach Neurology Residents *Juan Ochoa, Dean Naritoku*

**P07.241** E-Learning Preferences of European Junior Neurologists *Johann Sellner, Edina Varga, Krisztina Vörös, Natalja Holler, Raluca Ilea, Xenia Kobeleva, Cristian Falup-Pecurariu, Walter Struhal, Laszlo Sztrihai*

**P07.242** A Neurophysiology OSCE as a Marker for Performance on the Resident in Training Examination *Andrew Westwood, Anna Hohler*

**P07.243** On-Call Shifts during Neurology Residency in a Spanish Tertiary Academic Hospital: A Quantitative Analysis *Juan Cuello, Pedro Rodriguez Cruz, Pilar Perez Gonzalez de Apodaca, Clara De Andres, Maria Martinez Ginés, Dolores Mateo Gonzalez, David Ezepeleta*

### Neurologic Education: Medical Student Education

**P07.244** The Use of Seizure Videos in Educating Medical Students in Differentiating Non-Epileptic Seizures (Motor Events) from Epileptic Seizures *Ruthanna Hunter, Deepti Bahl, David Lardizabal, Sean Lanigar, Pradeep Sahota*

**P07.245** Daily Written Reflections Improve Medical Student Learning during a Third-Year Child Neurology Rotation *Douglas Larsen*

**P07.246** Neurophobia in Medical Students and Junior Doctors in Singapore – Blame the GIK *Kai-qian Kam, Glorijoy Tan Shi En, Kevin Tan, Erle Lim Chuen Hian, Nien-Yue Koh, Nigel Tan Choon Kiat*

**P07.247** Video Gaming: A Pilot Study Tool To Enhance Localization in Neurology *Arnold Brizuela, Bryan Jaycox, Sarah Ingersoll, Lilyana Amezcua*

**P07.248** Feasibility of a Simple Audience Response System SMS Messaging *J. Douglas Miles*

### Neuro-Ophthalmology/ Neuro-Otology

**P07.249** Role of MR Imaging in the Diagnosis of Idiopathic Intracranial Hypertension: A Prospective Study from a Tertiary Teaching Hospital of South India *Dhairiyawan Pokalkar, Veena Narisetty, Ranjith Polusani, Ramesh Dasodu, Murali Chekuri*

**P07.250** Sympathetic Neurotransmission Increases Local TGF-beta-2 in the Eye and Supports Ocular Inflammation *Jose Vega, Darakshan Fatmi, Sharmila Masli, Bruce Turpie, Irina Agoulnik, Wayne Bowden, Paola Montero*

**P07.251** Relapsing Inflammatory Optic Neuropathy: A Multicenter Study of 62 Patients *Aurelien Benoitil, Caroline Tilikete, Carl Arndt, Nicolas Collongues, Alain Vighetto, Catherine Vignal-Clermont, Jerome De Seze*

**P07.252** Familial Idiopathic Intracranial Hypertension – Case Series *Anat Kesler, Einat Kline, Gad Dotan*

**P07.253** Inpatient and Emergency Services Utilization in Idiopathic Intracranial Hypertension *Deborah Friedman, Jagger Koerner*

**P07.254** Optic Nerve Imaging Using Synchrotron Radiation *Edward Atkins, Cornelius de Jager, Sheldon Wiebe, Bruce Grahn, Dean Chapman*

**P07.255** Phase IV Vision Study Evaluates Retinal Structure and Function in Adult Patients with Refractory Complex Partial Seizures Treated with Vigabatrin *Robert Sergott, R. Faught, Sarah Torri, David Wesche*

**P07.256** A Case of Terson's Syndrome Status-Post High Volume Lumbar Puncture *Laurel Smit, Agnieszka Ardelt, Maciej Lesniak, Seenu Hariprasad, Armin Afshar, Wilson Cueva*

**P07.257** Delayed Onset of Papilledema in Cerebral Venous Sinus Thrombosis (CVST) *Justine Wang, Walid Matar, Louise Allport*

**P07.258** Secondary Invasion of the Optic Nerve Head by a Frontal Lobe Anaplastic Astrocytoma *Marc Dinkin*

**P07.259** Deriving Clinically Useful Visual Evoked Potential Measurements from 120 Sector Multi-Focal Visual Evoked Potential Sequences *Darrel Conger, Amy Conger, Teresa Frohman, Laura Balcer, Peter Calabresi, Shin Beh, Benjamin Greenberg, Elliot Frohman*

**P07.260** Visual Evoked Potential Latency Prolongation in MS: Correlation with Cognitive Performance on a Computerized Testing Battery *Salim Chahin, Laura Balcer, Peter Calabresi, Barbara Bumstead, Lori Fafard, Samson Mebrahtu, Steven Galetta, Glen Doniger, Mark Gudesblatt*

**P07.261** Obstructive Sleep Apnea in Idiopathic Intracranial Hypertension: Comparison with Matched Population Data *Matthew Thurtell, Lynn-Marie Trotti, Edward Bixler, David Rye, Donald Bliwise, Nancy Newman, Valerie Biousse, Beau Bruce*

**P07.262** Photographic Assessment of Optic Disc and Retinal Vasculature in Obstructive Sleep Apnea (OSA) Patients *Beau Bruce, Clare Fraser, Donald Bliwise, Lynn-Marie Trotti, Nancy Collop, David Rye, Nancy Newman, Valerie Biousse*

**P07.263** Does Bilateral Transverse Cerebral Venous Sinus Stenosis (TSS) Really Exist in Patients without Increased Intracranial Pressure (ICP)? *Linda Kelly, Amit Saindane, Beau Bruce, Maysa Ridha, Bryan Riggeal, Nancy Newman, Valerie Biousse*

**P07.264** Non-Mydriatic Ocular Fundus Photography Read by Emergency Department (ED) Physicians: FOTO-ED Study *Beau Bruce, Praneetha Thulasi, Clare Fraser, Matthew Keadey, Antoinette Ward, Katherine Heilpern, David Wright, Nancy Newman, Valerie Biousse*

**P07.265** White and Gray Matter Damage Extends beyond the Visual Pathways in Patients with Autosomal Dominant Optic Atrophy and OPA1 Mutations *Roberta Messina, Maria Rocca, Stefania Bianchi Marzoli, Iacopo Milesi, Melissa Petrolini, Andrea Falini, Giancarlo Comi, Massimo Filippi*

**P07.266** Does the Presence of Transverse Sinus Stenosis (TSS) Influence the Clinical Presentation and Outcome of Idiopathic Intracranial Hypertension (IIH) *Bryan Riggeal, Beau Bruce, Amit Saindane, Linda Kelly, Maysa Ridha, Nancy Newman, Valerie Biousse*

**P07.267** MRI Findings in Idiopathic Intracranial Hypertension (IIH) Compared with Cerebral Venous Thrombosis (CVT) *Maysa Ridha, Amit Saindane, Beau Bruce, Bryan Riggeal, Linda Kelly, Nancy Newman, Valerie Biousse*

**P07.268** Cross Sectional Survey of Visual Acuity and Self-Reported Visual Function in Patients with Amyotrophic Lateral Sclerosis *Heather Moss, Girish Mohan, Qin Li Jiang, Julie Rowin*

**P07.269** Long-Term Efficacy and Tolerability of Milnacipran: 3-Year Results from an Open-Label, Flexible-Dosing Study in Patients with Fibromyalgia *Lesley Arnold, Allan Spera, Arlene Baldecchi, Joel Trugman, Kimberley Thacker, Yong Wang*

**P07.270** Efficacy of Milnacipran Following Long-Term Treatment of Fibromyalgia: Results from a Randomized, Double-Blind, Placebo-Controlled Discontinuation Study *Daniel Clauw, Philip Mease, Yimin Ma, Arlene Baldecchi, Robert Palmer, Kimberley Thacker, Joel Trugman*

**P07.271** Effects of Switching from Duloxetine to Milnacipran: Results from a Randomized, Double-Blind, Placebo-Controlled Study in Fibromyalgia *Lucinda Bateman, Allan Spera, Robert Palmer, Joel Trugman, Kimberley Thacker, Jennifer Lin*

**P07.272** How To Disclose the AD Diagnosis to Demented Patients? *Yimar Correa Neto, Guilhermina Rego, Rui Nunes*

**P07.273** Burning Mouth Syndrome Responsive to Duloxetine: (A Case Report) *Jonathan Guterman*

**P07.274** Duty of Care to the Unconscious Patient – Approaching the Controversies of the Persistent Vegetative State by Fulfilling the Physician's Duty of Care *Orlanda Goh*

**P07.275** Encephalocele: The Dilemma of When To Surgically Intervene *Meliana Trinidad-Mas, Ana Delgado, Rizwan Bashir, Adam Slansky, Robert Lopez-Alberola*

### Education Program Evaluation Forms— Now Online Only!

In an effort to be conscious of both the environment and your time, all 2012 Annual Meeting Education Program evaluation forms will be handled electronically only—online and at your convenience. Simply log on to [AAN.com](http://AAN.com) after you've attended your applicable course or program to complete the form and receive your CME.

- S51**  
**Multiple Sclerosis: Imaging: Cognition**  
**3:00 p.m. S51.001**  
Improving the Detection of Grey Matter Lesions in MS Using MRI: A Comparison of Double Inversion Recovery and Phase Sensitive Inversion Recovery *Varun Sethi, Tarek Yousry, Nils Muhler, Maria Ron, Xavier Golay, Claudia Wheeler-Kingshott, David Miller, Declan Chard*
- 3:15 p.m. S51.002**  
Regional White Matter Tissue Damage Predicts Local Cortical Thinning in Multiple Sclerosis *Elizabeth Fisher, Jar-Chi Lee, Kunio Nakamura, Patricia Jagodnik, Richard Rudick*
- 3:30 p.m. S51.003**  
Cognitive Rehabilitation Modifies Functional Connectivity of the Anterior Cingulate Cortex in Multiple Sclerosis *Letizia Panicari, Maria Rocca, Paola Valsasina, Gianna Carla Riccitelli, Flavia Mattioli, Ruggero Capra, Chiara Stampatori, Giancarlo Comi, Massimo Filippi*
- 3:45 p.m. S51.004**  
The Longitudinal Relationship between Cognitive Dysfunction and Global vs. Regional Brain Atrophy in Relapsing Remitting Multiple Sclerosis: A One Year Follow-Up Study *Antonia Ceccarelli, Mohit Neema, Jonathan Jackson, Xumei Han, Ashish Arora, Bonnie Glanz, Ralph Benedict, Rohit Bakshi*
- 4:00 p.m. S51.005**  
Gray Matter Damage Predicts the Accumulation of Disability and Cognitive Impairment 13 Years Later in Patients with Multiple Sclerosis *Maria Rocca, Paolo Preziosa, Massimiliano Copetti, Gianna Carla Riccitelli, Roberta Messina, Giancarlo Comi, Massimo Filippi*
- 4:15 p.m. S51.006**  
Hippocampal-Thalamic Disruption Predicts Cognitive Function in Relapsing-Remitting Multiple Sclerosis *Kyle Kern, Brian Lee, Michael Montag, Jessica Horsfall, Stefan Gold, Mary-Frances O'Connor, Nancy Sciotte*
- S52**  
**Parkinson's Disease: Non-Motor Symptoms**  
**3:00 p.m. Presentation of the S. Weir Mitchell Award**  
*Recipient:*  
**Nandakumar Narayanan, MD, PhD**  
*New Haven, CT*
- 3:15 p.m. S52.002**  
Neuropathologic Substrates of Parkinson's Disease Dementia *David Irwin, Matthew White, Jon Toledo, Sharon Xie, John Robinson, Viviana Van Deerlin, James Leverenz, Thomas Montine, Virginia Lee, John Duda, Howard Hurtig, John Trojanowski*
- 3:30 p.m. S52.003**  
Prospective Cohort Study of Impulse Control Disorders in Parkinson's Disease *Jesse Bastiaens, Benjamin Dorfman, Paul Christos, Melissa Nirenberg*
- 3:45 p.m. S52.004**  
Aerobic Fitness, Cognition, and Brain Networks in Parkinson's Disease *Ergun Uc, Vincent Magnotta, Kevin Doerschug, Sonya Mehta, Teri Thomsen, Joel Kline, Matthew Rizzo, Thomas Grabowski, Joel Bruss, Sara Newman, Justin Nicol, Steven Anderson, Jeffrey Dawson, Arthur Kramer, Warren Darling*
- 4:00 p.m. S52.005**  
Why Does Bilateral Subthalamic Stimulation Induce Cognitive Decline in Patients with Parkinson's Disease? *Marie-Laure Welter, Virginie Czernecki, Michael Schupbach, Sara Fernandez-Vidal, Carine Karachi, Soledad Navarro, Philippe Cornu, Bernard Pidoux, Luc Mallet, Didier Dormont, Marie Vidailhet, David Grabli, Anne-Marie Bonnet, Hayat Belaid, Jean-Luc Houeto, Eric Bardinet, Jerome Yelnik, Yves Agid*
- 4:15 p.m. S52.006**  
Treatment with Rasagiline Improves the Quality of Sleep in Patients with Parkinson's Disease: Results of the Rasagiline Effect on Sleep Trial (REST) *Michel Panisset, Sylvain Chouinard*
- S53**  
**Stroke Genetics, Stem Cells, and Cognition**  
**3:00 p.m. S53.001**  
The Use of Linkage Data To Prioritize Results from Whole Exome Sequencing in Familial Intracranial Aneurysm *Janice Farlow, Hai Lin, Kurt Hetrick, Hua Ling, Dongbing Lai, Laura Sauerbeck, Daniel Woo, Carl Langefeld, Robert Brown, Elizabeth Pugh, Kimberly Doheny, Yunlong Liu, Tatiana Foroud, Joseph Broderick*
- 3:15 p.m. S53.002**  
Improved Aneurysmal SAH Outcomes: A Comparison of 2 Decades at an Academic Center *Neeraj Naval, J. Carhuapoma, Rafael Tamargo*
- 3:30 p.m. S53.003**  
Allogeneic Gene-Modified Mesenchymal Stem Cells for Stable Stroke: Mechanism of Action and Translation to the Clinic *Casey Case*
- 3:45 p.m. S53.004**  
Cognitive Outcome after Acute Stroke Does Not Correlate with Functional Outcome on Modified Rankin Scale *Brendan Kelley, Heidi Sucharew, Kathleen Alwell, Charles Moomaw, Eric Rademacher, Peter Embi, Jane Khoury, Christopher Lindsell, Daniel Woo, Matthew Flaherty, Pooja Khatri, Opeolu Adeoye, Simona Ferioli, Dawn Kleindorfer, Brett Kissela*
- 4:00 p.m. S53.005**  
Improvement in Executive Function after Unilateral Carotid Artery Stenting for Severe Asymptomatic Stenosis *Nicolas Fabbro, Luciano Sposato, Oscar Mendiz, Gustavo Lev, Analía Calle, Leon Valdivieso, Carlos Fava, Francisco Klein, Teresa Torralva, Ezequiel Gleichgerrcht, Facundo Manes*
- 4:15 p.m. S53.006**  
Characteristics and Outcomes of Ischemic Strokes Associated with Obstructive Sleep Apnea *Muna Irfan, Ameer Hassan, Saqib Chaudhry, Wondwossen Tekle, Nassir Rostambeigi, Adnan Qureshi*
- S54**  
**Aging and Dementia: Genetics**  
**3:00 p.m. S54.001**  
Novel Late-Onset Alzheimer's Disease Loci Variants Associate with Brain Gene Expression *Mariet Allen, Fangcheng Zou, High Seng Chai, Curtis Younkin, Julia Crook, Vernon Pankratz, Minerva Carrasquillo, Christopher Rowley, Asha Nair, Sumit Middha, Sooraj Maharjan, Thuy Nguyen, Li Ma, Kimberly Malphrus, Ryan Palusak, Sarah Lincoln, Gina Bisceglia, Constantin Georgescu, Christopher Kolbert, Jin Jen, Ronald Petersen, Neill Graff-Radford, Dennis Dickson, Steven Younkin, Nilufer Taner*
- 3:15 p.m. S54.002**  
Novel Progressive Supranuclear Palsy (PSP) Risk Loci Variants Associate with Brain Gene Expression Levels *Nilufer Taner, Fangcheng Zou, High Seng Chai, Curtis Younkin, Julia Crook, Vernon Pankratz, Mariet Allen, Minerva Carrasquillo, Christopher Rowley, Asha Nair, Sumit Middha, Sooraj Maharjan, Thuy Nguyen, Li Ma, Kimberly Malphrus, Ryan Palusak, Sarah Lincoln, Gina Bisceglia, Constantin Georgescu, Naomi Kouri, Christopher Kolbert, Jin Jen, Ronald Petersen, Neill Graff-Radford, Dennis Dickson, Steven Younkin*
- 3:30 p.m. S54.003**  
Frequency and Phenotypes Associated with C9ORF72 Repeat Expansion in French FTLD and FTLD-ALS Patients *Isabelle Le Ber, Agnès Camuzat, Léna Guillot-Noel, Eric Guedj, Didier Hannequin, Isabelle Wargon, Philippe Couratier, Vincent Deramecourt, Eric Berger, Gabriel Viennet, Florence Pasquier, Lucette Lacomblez Arousseau, Francois Salachas, Olivier Martinaud, Veronique Giffier, Michele Puel, Martine Vercelleto, Mira Didic, Mathilde Sauvée, Francois Sella, Catherine Thomas-Anterior, Dominique Campion, Bernard Michel, Bruno Dubois, William Camu, Danielle Seilhean, Vincent Meininger, Marie-Odile Habert, Charles Duyckaerts, Alexis Brice*
- 3:45 p.m. S54.004**  
Clinical Heterogeneity in Familial Frontotemporal Dementia and Amyotrophic Lateral Sclerosis Caused by C9ORF72 Mutation *Ging-Yuek Hsiung, Mariely DeJesus-Hernandez, Howard Feldman, Pheth Sengdy, Phoenix Bouchard-Kerr, Emily Dwosh, Bonnie Leung, Alice Fok, Nicola Rutherford, Matt Baker, Rosa Rademakers, Ian R. A. Mackenzie*
- 4:00 p.m. S54.005**  
Characterization of Frontotemporal Dementia +/- Amyotrophic Lateral Sclerosis Associated with the GGGGCC Repeat Expansion in C9ORF72 *Bradley Boeve, Neill Graff-Radford, Kevin Boylan, Mariely DeJesus-Hernandez, David Knopman, Keith Josephs, Otto Pedraza, Prashanthi Vemuri, Beth Rush, Julie Fields, Tanis Fernan, Matt Baker, Nicola Rutherford, David Jones, Val Lowe, Zbigniew Wszolek, Anahita Adeli, Rodolfo Savica, Brandon Boot, Ralitza Gavrilova, Karen Kuntz, Jennifer Whitwell, Kejal Kantarci, Clifford Jack, Dennis Dickson, Joseph Parisi, John Lucas, Ronald Petersen, Rosa Rademakers*
- 4:15 p.m. S54.006**  
C9ORF72 Mutations in Two Patients with Slowly Progressive bvFTD "Phenocopy" *Baber Khan, Katherine Rankin, Sharon Sha, Leonel Takada, Jennifer Yokoyama, Anna Karydas, Jamie Fong, Nicola Rutherford, Matthew Baker, Mariely DeJesus-Hernandez, Giovanni Coppola, Rosa Rademakers, Howard Rosen, William Seeley, Adam Boxer, Bruce Miller*
- S55**  
**Muscle Disorders**  
**3:00 p.m. S55.001**  
Mutations in the Nuclear Encoded Novel Mitochondrial Protein CHCHD10 Cause an Autosomal Dominant Mitochondrial Myopathy *Senda Ajroud-Driss, Faisal Fecto, Kaouther Ajroud, Teepu Siddique*
- 3:15 p.m. S55.002**  
New MPV17 Mutations Associated with Multiple Deletions in Skeletal Muscle *Caterina Garone, Juan Carlos Rubio, Sarah Calvo, Ali Naini, Kurenai Tanji, Salvatore DiMauro, Vamsi Mootha, Michio Hirano*
- 3:30 p.m. S55.003**  
Cardiac Involvement Is a Major Cause of Morbidity and Mortality in Patients Harboring the MT-TL1 3243A>G "MELAS" Mutation *Eduardo Malfatti, Tanya Stojkovic, Anthony Behin, Bruno Eymard, Claude Jardel, Christophe Meune, Anne Lombes, Denis Duboc, Karim Whabi, Pascal Laforet*
- 3:45 p.m. S55.004**  
Exome Sequencing Reveals DNAJB6 Mutations in Dominantly-Inherited Myopathy *Matthew Harms, R. Sommerville, Peggy Allred, Shaughn Bell, Duanduan Ma, Paul Cooper, Glenn Lopate, Alan Pestronk, Conrad Wehl, Robert Baloh*
- 4:00 p.m. S55.005**  
Phase II Therapeutic Trial of Mexiletine in Non-Dystrophic Myotonia: Secondary Outcomes Show Improvement in Symptoms and Signs of Myotonia *Jeffrey Statland, Mohammad Salajegheh, Brian Bundy, Yunxia Wang, Dipa Raja Rayan, Jaya Trivedi, Valeria Sansone, Shannon Venance, Emma Cialfoni, Emma Matthews, Giovanni Meola, Alice Zanolini, Matteo Ciocca, Laura Herbelin, Robert Griggs, Richard Barohn, Michael Hanna, The Consortium for Clinical Investigation of Neurologic Channelopathies*
- 4:15 p.m. S55.006**  
Correction of Membrane Repair Defects in Dysferlin Deficient Muscle Following AAV5 Gene Transfer *William Grose, Danielle Griffin, Kim Shontz, Vinod Malik, Chrystal Montgomery, Paul Janssen, Reed Clark, Jerry Mendell, Louise Rodino-Klapac*

<b>S56</b> <b>Epilepsy: Therapy</b>	<b>S57</b> <b>Infections II</b>	<b>S58</b> <b>Clinical Neurophysiology</b>	<b>S59</b> <b>History of Neurology</b>	<b>S60</b> <b>Multiple Sclerosis: Biomarkers: Clinical Phenotype</b>
<b>3:00 p.m. S56.001</b> A Gene Expression-Based <i>In Silico</i> Approach Identifies New Biological Targets in Human Mesial Temporal Lobe Epilepsy <i>Jaira de Vasconcellos, Claudia Maurer-Morelli, Cristiane Rocha, Clarissa Yasuda, Helder Tedeschi, Evandro De Oliveira, Fernando Cendes, Iscia Lopes-Cendes</i>	<b>3:00 p.m. S57.001</b> Herpes Virus Infections of the Brain Complicating Allogeneic Hematopoietic Stem Cell Transplantation (SCT) <i>Minal Bhanushali, Sarah Kranick, Sara Inati, Alexandra Freeman, Mino Battiwalla, Avindra Nath</i>	<b>3:00 p.m. S58.001</b> Preliminary Observations on a New TrigeminoFacial Reflex <i>Fidias E. Leon-Sarmiento, Richard L. Doty, Carlos Rizzo-Sierra, Edgardo Bayona, Jaime Bayona-Prieto</i>	<b>3:00 p.m. S59.001</b> Valverde's Plagiarism of a Brain Dissection by Vesalius <i>John Lanska, Douglas Lanska</i>	<b>3:00 p.m. S60.001</b> Tissue Susceptibility to Neuromyelitis Optica Is Associated with Aquaporin-4 Expression and Supramolecular Aggregation <i>Marcelo Mattiello, David Sun, Janet Schaefer-Klein, Brian Weinschenker</i>
<b>3:15 p.m. S56.002</b> Fetal Antiepileptic Drug and Folate Exposure: Cognitive Outcomes at Age 6 Years <i>Kimford Meador, Gus Baker, Nancy Browning, Morris Cohen, Rebecca Brombley, Jill Clayton-Smith, Laura Kalayjian, Andres Kanner, Joyce Liporace, Page Pennell, Michael Privitera, David Loring</i>	<b>3:15 p.m. S57.002</b> Anti-Glutamate Receptor Epsilon 2 Autoantibodies in Patients with Creutzfeldt-Jakob Disease <i>Koji Fujita, Tatsuhiko Yuasa, Yukitoshi Takahashi, Wataru Sako, Yuishin Izumi, Ryuji Kaji</i>	<b>3:15 p.m. S58.002</b> Electro-Clinical and Imaging Characteristics of Ictal Periodic Lateralized Epileptiform Discharges (PLEDs) during Continuous EEG (cEEG) Monitoring: A Retrospective Analysis of 10 Cases <i>Indranil Sen-Gupta, Stephan Schuele, Michael Macken, Elizabeth Gerard</i>	<b>3:15 p.m. S59.002</b> Goya's Visual Rehabilitation from Balint's Syndrome? A Key Point in the Evolution of the Artist <i>Michael Dobbs</i>	<b>3:15 p.m. S60.002</b> Effects of Age and Sex on Aquaporin-4 Autoimmunity <i>Amy Quek, Andrew McKeon, Vanda Lennon, Jayawant Mandrekar, Raffaele Iorio, Yujuan Jiao, Chiara Costanzi, Brian Weinschenker, Dean Wingerchuk, Claudia Lucchinetti, Elizabeth Shuster, Sean Pittock</i>
<b>3:30 p.m. S56.003</b> Incidence of Congenital Malformations in Infants Born to Patients with Epilepsy: A Comparison of Pregnancy Registries and Cohort Study Data <i>Georgia Montouris, Cynthia Harden, Jessica Albano, Ilo Leppik, David Miller</i>	<b>3:30 p.m. S57.003</b> CNS Complications in Immunodeficiency Syndromes Due to Mutations in Transcription Factors STAT-1 and GATA-2 <i>Sarah Kranick, Steven Holland, Gulbu Uzel, Avindra Nath</i>	<b>3:30 p.m. S58.003</b> Contact Heat Evoked Potential Stimulation (CHEPS) Is Abnormal More Than Epidermal Nerve Fiber Density in Patients with Sensory Neuropathy or Small Fiber Neuropathy <i>Benn Smith, E. Bosch, Mark Ross, Brent Goodman, Lyell Jones, Charlene Hoffman-Snyder</i>	<b>3:30 p.m. S59.003</b> H. Charlton Bastian on Kinaesthetic Centers and Concepts of Aphasia <i>Victor Henderson</i>	<b>3:30 p.m. S60.003</b> T Cells from Patients with Neuromyelitis Optica Recognize Discrete T Cell Determinants of Aquaporin-4 and Exhibit a Proinflammatory Th17 Bias <i>Michel Varrin-Doyer, Collin Spencer, Ulf Schulze Topphoff, Patricia Nelson, Robert Stroud, Bruce Cree, Scott Zamvil</i>
<b>3:45 p.m. S56.004</b> Hypothermia Attenuates Neuro-Glial Injury and Neuroinflammation in Prolonged Status Epilepticus <i>Sandipan Pati, J. X. Yin, Y. Gan, J. Georges, V. Jayaram, S. Marsh, Fu-Dong Shi, Marwan Maalouf, David Treiman</i>	<b>3:45 p.m. S57.004</b> The Clinical Characteristics of Aseptic Meningitis with Selective IgG Subclass 3 Deficiency <i>Yuichi Hayashi, Megumi Yamada, Nobuaki Yoshikura, Naoko Harada, Akihiro Koumura, Takeo Sakurai, Akio Kimura, Takashi Inuzuka</i>	<b>3:45 p.m. S58.004</b> Assessment of Multiple Sclerosis Patients with a Known History of Unilateral Optic Neuritis Shows Optic Nerve Head Component Loss in the Fellow Unaffected Eye <i>Amy Conger, Darrel Conger, Teresa Frohman, Shin Beh, Benjamin Greenberg, Laura Balcer, Peter Calabresi, Elliot Frohman</i>	<b>3:45 p.m. S59.004</b> Gowers' Queen Square Case Notes on Chorea <i>Francisco Cardoso, Thiago Vale, Andrew Lees</i>	<b>3:45 p.m. S60.004</b> Immune System Modulation in Multiple Sclerosis as a Result of Sunlight Exposure: Role of <i>cis</i> -Urocanic Acid <i>Jorge Correale, Mauricio Farez</i>
<b>4:00 p.m. S56.005</b> Perampanel, a Selective, Non-Competitive AMPA Receptor Antagonist, Prolongs Time to Seizure Recurrence in Patients with Epilepsy: Results of Pooled Phase III Clinical Trial Data <i>Antonio Laurenza, Jacqueline French, Antonio Gil-Nagel, Renzo Guerrini, David Squillacote, Haichen Yang, Dinesh Kumar</i>	<b>4:00 p.m. S57.005</b> A Mouse Model of Arachnoid Granulation Obstruction by Cryptococcus <i>Jeffrey Rumbaugh, Yu Hui Wu, Angela Pool</i>	<b>4:00 p.m. S58.005</b> Contact Heat Evoked Potential Stimulation (CHEPS) Is Abnormal More Than Epidermal Nerve Fiber Density in Patients with Sensory Neuropathy or Small Fiber Neuropathy <i>Benn Smith, E. Bosch, Mark Ross, Brent Goodman, Lyell Jones, Charlene Hoffman-Snyder</i>	<b>4:00 p.m. S59.005</b> Neurological Studies of Executed Criminals <i>Douglas Lanska</i>	<b>4:00 p.m. S60.005</b> Increased Th17 Central Memory Response to Myelin Peptides in Pediatric Multiple Sclerosis <i>David Vargas-Lovvy, Pia Kivisaak, Roopali Ghandi, Khadir Raddassi, Mark Gorman, Samia Khoury, Tanuja Chitnis</i>
<b>4:00 p.m. S56.006</b> Perampanel, a Selective, Non-Competitive AMPA Receptor Antagonist, Prolongs Time to Seizure Recurrence in Patients with Epilepsy: Results of Pooled Phase III Clinical Trial Data <i>Antonio Laurenza, Jacqueline French, Antonio Gil-Nagel, Renzo Guerrini, David Squillacote, Haichen Yang, Dinesh Kumar</i>	<b>4:15 p.m. S57.006</b> Rapid Increase of Astrocytic and Inflammatory Markers in the Cerebrospinal Fluid of HIV+ Patients on LPV/r-Monotherapy <i>Renaud Du Pasquier, Malela Kalubi, Samantha Jilek, Sabine Yerly, Christoph Fux, Christine Gutmann, Alexia Cusini, Matthias Cavassini, Milos Opravil, Pietro Vernazza</i>	<b>4:15 p.m. S58.006</b> EEG Findings after Therapeutic Hypothermia Correlate with Outcome <i>Amy Crepeau, Jeffrey Britton, Jennifer Fugate, Eelco Wijdicks, Alejandro Rabinstein</i>	<b>4:00 p.m. S59.006</b> The History of the Vascular Theories of Multiple Sclerosis <i>Clarissa Wong, Robert Fox, Alexander Rae-Grant</i>	<b>4:15 p.m. S60.006</b> Specific Serum Antibody Patterns Detected with Antigen Arrays Are Associated to the Development of MS in Pediatric Patients <i>Francisco Quintana, Roya Rahbari, Sandra Magalhaes, Melissa McGowan, Trina Johnson, Sathyanath Rajasekharan, Howard Weiner, Brenda Banwell, Amit Bar-Or</i>


**Integrated Neuroscience Session: Pediatric Movement Disorders**

Coordinators: Rebecca Lehman, MD and Jonathan Mink, MD, PhD, FAAN

**Invited Speaker Session\* / 8:00 a.m. – 10:00 a.m.**

- 8:00 a.m. – 8:15 a.m.** Introduction and Overview *Rebecca Lehman, MD*
- 8:15 a.m. – 8:50 a.m.** Movement Disorders Associated with GLUT1 Deficiency *Toni Pearson, MD*
- 8:50 a.m. – 9:25 a.m.** Childhood-Onset Primary Dystonias *Rachel Saunders-Pullman, MD*
- 9:25 a.m. – 10:00 a.m.** Dopamine Transporter Deficiency and Other Disorders of Dopamine Neurotransmission *Manju Kurian, MD, PhD*

**Poster Rounds\* / 10:00 a.m. – 11:00 a.m.**

- IN10-1.001** School Performance in Tic Disorders. A Cross-Sectional Study of School Performance in 1,867 Children in Central Spain *Esther Cubo Delgado, José Trejo Gabriel Galán, Vanesa Ausin-Villaverde, Sara Saez, Vanesa Delgado-Benito, Jesús Macarrón-Vicente, Elan Louis, José Cordero-Guevara, Julian Benito-Leon*
- IN10-1.002** Genome-Wide Association Study of Gilles de la Tourette Syndrome *Jeremiah Scharf, Dongmei Yu, Carol Mathews, Benjamin Neale, Evelyn Stewart, Jes Fagemess, Patrick Evans, Eric Gamazon, Susan Service, Lisa Osiecki, Cornelia Illmann, Danielle Cath, Robert King, Yves Dion, Paul Sandor, Cathy Barr, Cathy Budman, Gholson Lyon, Marco Grados, Harvey Singer, Joseph Jankovic, Donald Gilbert, Pieter Hoekstra, Gary Heiman, Jay Tischfield, Matthew State, Mary Robertson, Roger Kurlan, Roel Ophoff, J. Raphael Gibbs, Mark Cookson, John Hardy, Andrew Singleton, Andres Ruiz-Linares, Guy Rouleau, Peter Heutink, Ben Oostra, William McMahon, Nelson Freimer, Nancy Cox, David Pauls*
- IN10-1.003** Anti - N-Methyl-D-Aspartate (NMDA) Receptor Antibody Encephalitis: A Case Series of Pediatric Patients *Clarimar Borrero-Mejias*
- IN10-1.004** Primary Myoclonus-Dystonia: A Diagnosis Often Missed in Children *Debabrata Ghosh, Shalaka Indulkar*
- IN10-1.005** Mutations in PNKD Causing Paroxysmal Dyskinesia Alters Protein Cleavage and Stability *Louis Ptacek, Yiguo Shen, Ying-Hui Fu*
- IN10-1.006** Pol III-Related Leukodystrophies: Dystonia as a New Clinical Feature *Bradley Osterman, Simona Orcesi, Michel Sylvain, Guillaume Sebire, Serge Melancon, Sylvain Chouinard, Adeline Vanderver, Genevieve Bernard*
- IN10-1.007** Single-Center Phase I/II Trial of Sodium Oxybate in Patients with Alternating Hemiplegia of Childhood *Aga Lewelt, Matthew Sweney, Sandra Reyna, Kenneth Silver, Brian Katchan, Mortimer Mamelak, Kathryn Swoboda*
- IN10-1.008** Fahr's Disease: Pediatric Presentation of a Rare Neurodegenerative Disorder *Nilika Singhal, Keith Van Haren, Yvonne Wu*
- IN10-1.009** Movement Disorders in Children with Acute Bilateral Lesions of the Basal Ganglia: A Case Series *Tuhin Virmani, Toni Pearson*

**Data Blitz Session\* / 11:00 a.m. – 11:30 a.m.**

- 11:00 a.m.** **IN10-2.001** Clinical and Genetic Characteristics of Participants with Juvenile PD: The CORE-PD Study *Roy Alcalay, Llency Rosado, Helen Mejia-Santana, Martha Orbe-Reilly, Elise Caccappolo, Mingxin Tang, Diana Ruiz, Barbara Ross, Miguel Verbitsky, Sergey Kisselev, Elan Louis, Cynthia Comella, Amy Colcher, Danna Jennings, Martha Nance, Susan Bressman, William Scott, Caroline Tanner, Howard Andrews, Cheryl Waters, Stanley Fahn, Lucien Cote, Steven Frucht, Blair Ford, Michael Rezak, Kevin Novak, Joseph Friedman, Ronald Pfeiffer, Laura Marsh, Bradley Hiner, Andrew Siderowf, Haydeh Payami, Eric Molho, John Nutt, Stewart Factor, Ruth Ottman, Lorraine Clark, Karen Marder*
- 11:05 a.m.** **IN10-2.002** Deep Brain Stimulation in Children with Dystonia: Experience from a Tertiary Care Center *Partha Ghosh, Andre Machado, Milind Deogaonkar, Debabrata Ghosh*
- 11:10 a.m.** **IN10-2.003** Trihexyphenidyl Has Cognitive Side Effects in Children with DYT1 Dystonia *Jennifer Cialone, Joanna Blackburn, Jonathan Mink*
- 11:15 a.m.** **IN10-2.004** PNKD Functions in RIM-Dependent Pathway To Regulate Exocytosis *Louis Ptacek, Yiguo Shen, Ying-Hui Fu*
- 11:20 a.m.** **IN10-2.005** Mutations in the Novel Protein PRRT2 Cause Paroxysmal Kinesigenic Dyskinesia with Infantile Convulsions *Hsien-yang Lee, Yong Huang, Robert Edwards, Michael Hanna, Anne Bowcock, Pierre Szepetowski, Ying-Hui Fu, Louis Ptacek*

**Panel Discussion / 11:30 a.m. – 12:00 p.m.**

\*Speakers and titles are subject to change



## Future of Neuroscience Conference: Neurotranslation: Neurologists and Neuroscientists Defining the Next Generation of CNS Therapies

This interactive, day-long program focuses on the recent paradigm shift in translating clinical and basic neuroscience discoveries from the laboratory to the development of novel drugs, gene therapy, and protein therapeutics and will feature poster sessions, platform presentations, a series of case vignettes, and several invited speakers discussing new developments in the field. The presenters will combine high-level science with practical clinical application. **Registration is required to attend this session, in addition to the Annual Meeting registration fee.**

### Introduction

9:00 a.m. – 9:20 a.m.

Jeffrey D. Rothstein, MD, PhD, Johns Hopkins University

### What is Drug Discovery?

9:20 a.m. – 9:55 a.m.

Alfred W. Sandrock, MD, PhD, Biogen Idec

### Building an Academic Translational Research Unit

9:55 a.m. – 10:30 a.m.

Barbara Slusher, PhD, Johns Hopkins University

### Break and Posters

10:30 a.m. – 10:50 a.m.

### Abstract Presentations

10:50 a.m. – 11:20 a.m.

**SC01.001** Impulsivity and Catechol-O-Methyltransferase Inhibition: A Translational Study Andrew Kayser, Daicia Allen, Ana Navarro-Cebrian, Jennifer Mitchell, Howard Fields

**SC01.002** The Therapeutic Effects of RG3039 in Severe Spinal Muscular Atrophy Mice and Normal Human Volunteers James Van Meerbeke, Rebecca Gibbs, Heather Plasterer, Zhihua Feng, Ming-Yi Lin, Claribel Wee, Bing Xia, Vincent Jacques, James Rusche, Chien-Ping Ko, Charlotte Sumner

### NIH, FDA and Drug Discovery

11:20 a.m. – 11:55 a.m.

Walter Koroshetz, MD, FAAN, NIH/NINDS

### Drug Screening/IPS Stem Cells and Academic Small Molecule Discovery

11:55 a.m. – 12:30 p.m.

Christopher Henderson, PhD, Columbia University

### Lunch

12:30 p.m. – 1:30 p.m.

### Biomarkers: Multiple Sclerosis

1:30 – 2:05 p.m.

Bibiana Bielekova, MD, NIH/NINDS

### Surrogate Markers: Alzheimer's and Imaging

2:05 – 2:40 p.m.

Marilyn Albert, PhD, Johns Hopkins University

### Abstract Presentations

2:40 – 3:10 p.m.

**SC01.003** Suppression of RNA-Polymerase 1 Pathway Is Associated with Benign Multiple Sclerosis Michael Gurevich, Anat Achiron

**SC01.004** Suppression of Experimental Autoimmune Encephalomyelitis with Nanoparticles Carrying a Central Nervous System Antigen and a Non-Toxic Aryl Hydrocarbon Receptor Ligand Ada Yeste, Meghan Nadeau, Evan Burns, Howard Weiner, Francisco Quintana Michio Hirano, Charlene Hafer-Macko

### Break and Posters

3:10 p.m. – 3:30 p.m.

### Clinical Trials: Academic Translation and Clinical and Translational Science Awards

3:30 p.m. – 4:05 p.m.

Justin McArthur, MBBS, MPH, FAAN, Johns Hopkins University

### Neurotherapeutics Discovery and Development in the Academic Setting: A New Paradigm

4:05 p.m. – 4:40 p.m.

Michael Rogawski, MD, PhD, University of California, Davis

### Questions and Answers

4:40 p.m. – 5:00 p.m.

### Poster Presentations

10:30 a.m. – 10:50 a.m.

3:10 p.m. – 3:30 p.m.

**SC02.001** Identifies Encephalitogenic T<sub>H</sub>17 Lymphocytes and Promotes Their Recruitment to the CNS Catherine Larochelle, Romain Cayrol, Hania Kebir, Marc-André Lécuyer, Jorge Alvarez, Nathalie Arbour, Alexandre Prat

**SC02.002** Fcγ Receptor Polymorphisms, Disease Severity and Response to IVIG Treatment in Myasthenia Gravis Carolina Barnett Tapia, Yakov Grinberg, Mahdi Ghani, Ekaterina Rogaeva, Peter St. George-Hyslop, Hans Katzberg, Vera Bril

**SC02.003** DJ-1 Based Peptide as a Novel Neuroprotective Strategy for Parkinson's Disease Nirit Lev, Yael Barhum, Tali Ben-Tzur, Eldad Melamed, Daniel Offen

**SC02.004** Adeno-Associated Viral (AAV)-Mediated Follistatin (FS) Gene Transfer Toxicology Studies in Preparation for Phase I Clinical Trial Janaiah Kota, Christopher Shilling, Chrystal Montgomery, Sarah Lewis, Adam Bevan, Kim Shontz, Yuuki Kaminoh, Xiomara Rosales, Laurence Viollet, Kevin Flanigan, Reed Clark, Brian Kaspar, Zarife Sahenk, Jerry Mendell

**SC02.005** Using Pimodiazole Delineated Penumbra To Improve Translational Research on Acute Stroke Neuroprotection Fen-Lei Chang, Benecia Hong-Goka

**SC02.006** Suppression of NF-κB Activation and Inflammation in Glial Cells by RNS60, a Novel Therapeutic: Implications for Neurodegenerative Disorders Saurabh Khasnavis, Arundhati Jana, Avik Roy, Tony Wood, Supurna Ghosh, Richard Watson, Kalipada Pahan

**SC02.007** Treatment of Malignant Gliomas Using Thermally Targeted Peptide Therapeutics Gene Bidwell, III, Eddie Perkins, Joshua Hughes, Majid Khan, Judy James, Drazen Raucher

**SC02.008** Peptidyl-Prolyl Isomerase Pin1: A Common Therapeutic Target for Synaptic Dysfunction and Protein Misfolding in Alzheimer's Disease Frances Chow, Richard Tsai, Carol Lippa, Yuesong Gong

**SC02.009** Combined Quantitative MRI and Quantitative MRS May Improve Early Diagnosis of Alzheimer's Disease Thao Tran, Jessica Liu, Napapon Sailasuta, Brian Ross

Friday, April 27

## Clinical Trials Forum

12:00 p.m.–1:30 p.m.



**Moderator:**  
**Natalia Sana Rost, MD, Member, Science Committee**

This midday seminar covers important clinical topics identified from other society meetings that affect patient care. The latest updates within several clinical trials conducted over the course of the last year will be presented with an open panel discussion at the conclusion.

12:00 p.m. – 12:15 p.m.

**Fred Lublin, MD, FAAN**

“The CombiRx Trial: A Multi-Center, Double-Blind, Randomized Study Comparing the Combined Use of Interferon Beta-1a and Glatiramer Acetate to Either Agent Alone in Participants with Relapsing-Remitting Multiple Sclerosis – Clinical Outcomes”

12:15 p.m. – 12:30 p.m.

**Horacio Kaufmann, MD, FAAN**

“Treatment of Neurogenic Orthostatic Hypotension with Droxidopa: Results from a Multi-Center, Double-Blind, Randomized, Placebo-Controlled, Parallel Group, Induction Design Study”

12:30 p.m. – 12:45 p.m.

**Shunichi Homma, MD**

“Warfarin Versus Aspirin in Reduced Cardiac Ejection Fraction (WARCEF) Trial”

12:45 p.m. – 1:00 p.m.

**Carol Koski, MD**

“Efficacy, Safety, and Tolerability of Intravenous Gammaglobulin in a Phase 3, Randomized, Placebo-Controlled, Cross-Over Trial for the Treatment of Multifocal Motor Neuropathy (MMN)”

1:00 p.m. – 1:15 p.m.

**Mark S. Forman, MD, PhD**

“The Novel BACE Inhibitor MK-8931 Dramatically Lowers CSF A $\beta$  Peptides in Healthy Subjects: Results from a Rising Single Dose Study”

1:15 p.m. – 1:30 p.m.

Open panel with speakers and closing remarks

## Scientific Program Highlights

5:15 p.m.–6:15 p.m.

**Moderator: Lisa M. DeAngelis, MD, FAAN, Chair, Science Committee**

This plenary session reviews the most critical new research from more than 2,000 studies presented throughout the 2012 Scientific Program. Education Programs will end at 5:00 p.m. Friday, allowing time for meeting participants to attend this session.

**For Full Abstracts and Bios for Plenary Speakers  
Visit [www.aan.com/view/plenary](http://www.aan.com/view/plenary)**





Tuesday, April 24, 2012  
7:00 p.m.–10:00 p.m.

# CORPORATE THERAPEUTIC UPDATES

**Registration is free and open to all  
registered Annual Meeting attendees.**

The industry representatives below invite you to an informational session on therapeutic updates. This program provides you the opportunity to learn about current therapies and projects in the corporate pipeline.

- **Allergan, Inc.**  
*Chronic Migraine and Movement Disorders  
Located at Hilton New Orleans Riverside  
Versailles Ballroom*
- **Biogen Idec, Inc.**  
*Multiple Sclerosis  
Located at JW Marriott  
Ile De France Ballrooms I, II, III*
- **Novartis Pharmaceuticals Corporation**  
*Multiple Sclerosis  
Located at Hilton New Orleans Riverside  
Napoleon Ballroom*
- **Pfizer Inc**  
*Alzheimer's Disease  
Located at Marriott Convention Center  
Blaine Kern Ballroom*
- **Pfizer Inc**  
*Cryptogenic Sensory Polyneuropathy  
Located at Hilton New Orleans Riverside  
Jefferson Ballroom*

RSVP is recommended for these events. Please visit [www.aan.com/view/ctu](http://www.aan.com/view/ctu) for more information.

*No CME will be given by any accredited organization for the Corporate Therapeutic Updates, and the AAN cannot affirm claims pertaining to FDA off-label medication, research use of pre-FDA drugs, or other research information that might be discussed. Corporate Therapeutic Updates are corporate events.*



## Art & Auction for Research

**8:00 a.m. Saturday, April 21–6:00 p.m. Thursday, April 26**

Please help raise funds for brain research by donating an exciting prize package, vacation getaway, electronic device, jewelry, art, or other highly desirable item to the AAN Foundation's 2012 Art & Auction for Research. Donations of cash are always an option as well. The event will take place all week long during the Annual Meeting.

Donate an item today by contacting Elizabeth Busch at (651) 332-8685 or [ebusch@aan.com](mailto:ebusch@aan.com), or visit [www.aan.com/go/am12](http://www.aan.com/go/am12)

## Brain Health Fair

**9:30 a.m.–3:30 p.m., Saturday, April 21**

*New Orleans Ernest N. Morial Convention Center*



The Brain Health Fair is a free, daylong event connecting hundreds of patients, families, and caregivers affected by a neurologic disorder in the New Orleans area with important resources to win the

battle against brain diseases. Attendees will learn from some of the best and brightest neurologists in the world about the latest research advances in Alzheimer's disease, brain injury, epilepsy, headache, multiple sclerosis, Parkinson's disease, and stroke. In addition, there will be an Exhibit Hall and fun activities for kids.

This public education and outreach event is produced by the American Academy of Neurology Foundation, which is committed to finding a cure for brain diseases and improving patient care, quality of life, and public understanding of brain and other neurologic disorders.

[www.BrainHealthFair.com](http://www.BrainHealthFair.com)



## Celebration for Research

**6:00 p.m.–11:00 p.m., Sunday, April 22**

Join us for an exciting evening filled with uniquely New Orleans entertainment! Enjoy a buffet of New Orleans favorites with your friends and colleagues. Each registered meeting attendee will receive one free ticket to these celebration events. Guest tickets are available through registration for \$50.



## Neurobowl®

**6:00 p.m.–8:00 p.m.**

AAN former president Thomas R. Swift, MD, FAAN, hosts another year of competition by the best and brightest in neurology for the enviable Neurobowl title. This popular quiz show focuses on the process of neurological diagnosis with common and rare neurologic case histories, video clips, investigations, and movie segments. Seating is limited and is available on a first-come, first-served basis.

## Main Stage

**8:30 p.m.–11:00 p.m.**

Flamboyant personality Rockin' Dopsie, Jr., (pronounced Doop' see) & The Zydeco Twisters can turn a house upside down on a moment's notice, delivering a high-energy mix of Zydeco, R n B, Soul, Oldies, and New Orleans funkiness all thrown into one big Gumbo of good time fun!

Besides having performed extensively on their own throughout the world, the band has shared the stage with Tina Turner, Bonnie Raitt, BB King, The Neville Brothers, Dan Akroyd, Dr. John, Harry Connick, Jr., Jimmy Buffet, and Britney Spears. They performed on the song That Was Your Mother, from Paul Simon's multi-platinum Grammy award-winning album Graceland and have also recorded with Cindy Lauper and Bob Dylan. The group has also performed for and with John Fogerty of Creedence Clearwater Revival fame, and appeared on the Gayle King Show, Live With Regis And Kathie Lee, Wheel Of Fortune, and entertained President Clinton at the White House.

Don't miss this high-energy, audience participation, dance 'til you drop, dynamic show!

## Neuro Film Festival®

**8:30 p.m.–11:00 p.m.**

Back by popular demand, this successful 2011 Annual Meeting favorite will feature the "best of the fest," a collection of truly moving—and inspiring—stories revealing why brain research is so important.

*Sponsored by PSAV® Presentation Services.*

## Best Care Expo: Eight Paths to Practice Excellence

1:00 p.m.–3:00 p.m., Monday, April 23



*Light snacks and cocktails will be served during this event.*

Attend the interactive 2012 Best Care Expo and experience how the Academy helps your practice meet the challenges of today's changing health care environment so you can provide the best possible care to your patients. This year's Expo has eight interactive stations:

### ■ Mock Legislative Visits

Learn how to relay issues to your legislators most effectively by practicing on AAN members and staff experienced in leading the annual AAN Neurology on the Hill event.

### ■ Mastering the Sound Bite

Condense any message into one that will be remembered! Learn how to develop the ultimate elevator speech.

### ■ ICD-10 Readiness Check

Walk through the ICD-10 implementation path and find out from the experts whether your practice is ready for the October 1, 2013, conversion and what your next steps are.

### ■ Claims Denials: Appeal Properly and Increase Reimbursement

Ensure your practice is properly appealing denied claims and learn ways to turn your denials into appropriate reimbursement effectively, using AAN resources and expert guidance!

### ■ Evidence-based Medicine: Guidelines and Resources

Test your knowledge of evidence-based medicine (EBM). Separate fact from myth about EBM and learn about the latest changes in AAN guideline development.

### ■ Quality and Value: Implementing Guidelines, Measures, and Safety in Practice

Access tools and resources to implement in practice the Physician Quality Reporting System measures, electronic health records, and registries. Learn about resources for reducing health care-acquired infections and condition-specific complications.

### ■ Patient-reported Outcomes

Access tools and resources to measure health outcomes from the patient perspective.

### ■ Sound-off Booth

Sound off about your biggest practice-related issues. Now is your chance to tell Academy staff what issues are affecting your practice.

## The \$44,000 Question: Are You Ready to Make the Most Out of Your EHR?

2:30 p.m.–5:30 p.m., Monday, April 23

The didactic two hours will consist of the following four presentations:

- Meaningful Use - How to register and get reimbursed
- Patient engagement & social media
- Using templates in your EHR
- Neuro applications and tablets, voice recognition

The interactive final hour will consist of the following station topics:

- General Meaningful Use Q&A and how to meet the October 3, 2012, deadline
- How to get started
- Advice from colleagues who have successfully earned the incentives
- and more!

Light food and beverage will be provided during the breakout session.

Attend this free session and earn up to 3.0 CME credits.

## Exhibit Hall Opening Reception

4:30 p.m.–7:30 p.m., Monday, April 23

Attend the opening reception to mingle with fellow attendees and preview the latest products and services available in the neurologic industry. Light hors d'oeuvres and beverages will be served. The exhibits will be open at this time.

## Run/Walk For Brain Research

*Sponsored by Teva Pharmaceuticals*

6:30 a.m.–8:30 a.m., Tuesday, April 24



Support research in neurology and join us for a 5k run or one mile walk in New Orleans. Whether you're an occasional or seasoned runner, or just enjoy a walk, you'll enjoy this beautiful trek—for a good cause. All proceeds go to support Clinical Research Training Fellowships in neurology. The race is open to all meeting attendees and their families. Water and refreshments will be available following the race. The registration fee is \$25.

### Section Challenge

The Sports Neurology section will again be hosting a section challenge in conjunction with the Run/Walk for Brain Research on Tuesday, April 24, from 6:30 a.m. to 8:00 a.m. at the AAN's 2012 Annual Meeting in New Orleans. Section members who wish to participate in the section challenge will be asked to indicate a specific section they are involved in when they sign up for the event. Challenges include recognition for the section with the most members participating in the run, the section with the fastest runner, and the section or participant who raises the most sponsor dollars.

More information about this event will be posted as it becomes available on the Sports Neurology Section's webpage:

[www.aan.com/go/about/sections/sports](http://www.aan.com/go/about/sections/sports).

Bus service to and from the race site will be provided. For registration and details, visit [www.aan.com/view/runwalk](http://www.aan.com/view/runwalk) or contact Andrew Halverson at [ahalverson@aan.com](mailto:ahalverson@aan.com) or (651) 695-2757.

## American Academy of Neurology and American Academy of Neurology Foundation Awards Luncheon

12:00 p.m.–1:30 p.m., Wednesday, April 25



### Rich Clifford to Receive Public Leadership in Neurology Award

The AAN Foundation will present its Public Leadership in Neurology Award to former NASA astronaut Rich Clifford. As a veteran of three Space Shuttle missions with 665 hours in orbit as a Mission Specialist, Clifford served as flight engineer and logged a six-hour spacewalk

on a Space Shuttle Atlantis docking at the Russian MIR Space Station.

Clifford left NASA in 1997 and joined The Boeing Company in the early stages of design and production of the International Space Station. He is the recipient of many distinguished awards for his achievements in space flight and engineering. In 1994 he was diagnosed with Parkinson's disease. Clifford lives in Houston with his wife, Nancy. They have two sons, Richard and Brandon.

Join AAN leaders as they honor the recipients of the 2012 AAN Awards. From enterprising high school students to world-renowned researchers, this program recognizes some of the top accomplishments in neuroscience research. Past keynote speakers on the importance of neurologic diseases include Billy McLaughlin, Tedy Bruschi, Dame Julie Andrews, Cuba Gooding, Jr., Leeza Gibbons, Maestro Leon Fleischer, and Michael J. Fox.

Tickets are available for \$50 through registration. Students and Junior members of the AAN may attend this event at no cost by requesting a ticket. Buy a ticket and show your support for award recipients.

### Reserve a Department Table and Be Recognized

Bring your department together and gain exposure for your team at the Awards Luncheon by reserving a department table. Give your residents and fellows the chance to sit together with department faculty and chairs in a place of honor among the top minds in the neurology/neuroscience academic community. To reserve a table, download the reservation form at [www.aan.com/am](http://www.aan.com/am). For questions, contact Lori Strachota at [lstrachota@aan.com](mailto:lstrachota@aan.com) or (651) 695-2706.

## USTA Tennis Event



The AAN Sports Neurology Section, in conjunction with the United States Tennis Association (USTA), will provide free morning Cardio Tennis events daily from 7:00 a.m. to 8:00 a.m. from Monday, April 23, to Friday, April 27, during the Annual Meeting. This event is intended to help promote the health benefits of tennis, while bringing overall awareness to the sport. By exposing AAN members and their families to a fun morning of tennis—and providing educational pamphlets regarding the health benefits of this and other similar sports—the Sports Neurology Section will begin the process of increasing awareness within the neurologic community of how exercise can benefit neurologic health and well-being. Cardio Tennis is a safe and healthy workout designed for players of all ability and fitness levels. The event will take place at the Hilton Health Club in New Orleans. It is recommended that participants arrive by 6:45 a.m. in order to pick up their heart monitor.

More information about the event will be posted on the Sports Neurology Section's webpage at [www.aan.com/go/about/sections/sports](http://www.aan.com/go/about/sections/sports) as it becomes available.

## Morning Yoga

Wake up your mind and body before a day filled with the latest breaking science and the best education. Come to the new yoga event on Sunday, Monday, and Wednesday mornings from 6:30 a.m. to 7:30 a.m. at the Hilton New Orleans Riverside. Attendance is free, but space is limited. Be sure to add this event to your Annual Meeting itinerary at [www2.cmrreg.com/aan\\_7i/aan2012/index.html](http://www2.cmrreg.com/aan_7i/aan2012/index.html). Yoga mats will be provided.

More information about this event will be posted online at [www.aan.com/go/about/sections/sports](http://www.aan.com/go/about/sections/sports) as it becomes available.

### Join the Annual Meeting Conversation!

Connect with colleagues and get updates on what's going on at the 2012 AAN Annual Meeting in New Orleans at [www.Twitter.com](http://www.Twitter.com) (use hashtag #AANAM) and on the AAN Facebook Page!

# What Would You Do with an Extra \$540?



Everyone likes a little extra cash in their pocket. And only your AAN membership can save you as much as \$540.00 (or more!)\* on Annual Meeting registration, program fees, and education products—that's more than the cost of your membership dues alone.

[www.aan.com/membership](http://www.aan.com/membership) . (800) 879-1960 . (651) 695-1940

\*Based on member neurologist vs. nonmember early registration, two half-day courses, one full-day course, and two Subspecialty in FocusTracks.



# New Orleans 2012

## Refresh Your Annual Meeting Experience!

### On-demand programming with the 2012 AAN On Demand

- **NEW:** More than 600 hours of cutting-edge educational content and breakthrough scientific research from the 2012 Annual Meeting, nearly 4 times the content of 2011
- **NEW:** Online access within 24 hours
- **NEW:** Mobile streaming for most iPad, iPhone, and Android devices
- **NEW:** USB Flash Drive offers convenient offline access (shipped after the Annual Meeting)
- **NEW:** Enhanced browser, search, and improved interface for better overall experience

### Great Value with Special Pricing

Get the AAN On Demand and the Syllabi on CD and save up to \$1,200!

*Junior \$399 / Member \$599 / Nonmember \$699 (List price \$1,599)*

#### 2012 AAN On Demand + USB Drive

Get all of the remarkable on-demand features listed above for download and backed up on a handy USB drive.

#### 2012 Syllabi on CD

Quick and convenient access to complete syllabi from more than 160 education programs. Get the CD separately for as low as \$99, pre-meeting price. (List price \$299)

### Pre-order and Save Up to \$1,200!

Refer to pricing information on the Registration Form (next page) and place your order.



## Syllabi on CD

Enjoy quick and convenient access to complete syllabi from more than 160 education programs.

## AAN On Demand

Receive online access to the slides, audio, and select video of more than 600 hours of education programs and presentations on the latest science, including all plenary sessions. Owning both the AAN On Demand and the Syllabi on CD provides a quick and convenient method to stay up-to-date on AAN education programming.

## Attending the 2012 Annual Meeting?

Pick up or order your copy of the AAN Syllabi on CD at the AAN On Demand Booth in Academy Central.

If you do not pick up your pre-ordered Syllabi CD at the meeting, there will be an additional \$15.00 shipping and handling charge.

## Not Attending the 2012 Annual Meeting?

If you are unable to attend the Annual Meeting, you can still take advantage of the special pre-meeting pricing.

- Order online at [www.CMEonCall.com/aan](http://www.CMEonCall.com/aan)
- Fill out and fax the completed order form located on this page to (800) 845-4375
- Mail your form to: Learner's Digest, AAN 2012 Orders, 1577 East Chevy Chase Drive, Glendale, CA 91206, USA
- Order by phone: (800) 501-2303 or (818) 240-7500 (international)
- Products ordered on this form will be mailed after the Annual Meeting.

## SPECIAL RATE ON SYLLABI ON CD FOR AAN JUNIOR MEMBERS

Purchase the 2012 Annual Meeting Syllabi on CD at a discounted pre-meeting rate of \$99. This rate is only available to AAN Junior members (one copy per Junior member).  
*Note: the discounted rate is available until April 28, 2012.*

## 2012 AAN On Demand Order Form

### Special Reduced Pre-Registration Pricing

	Through April 28	After April 28	Quantity	Total
<b>AAN ON DEMAND</b>				
Online Webcast access, USB for offline access, downloadable MP3 files, and Syllabi on CD				
Junior and Non-Neurologist Member	\$399	\$1,599	_____	_____
Member Neurologist	\$599	\$1,599	_____	_____
Nonmember	\$699	\$1,599	_____	_____
<b>SYLLABI ON CD ONLY</b>				
Junior and Non-Neurologist Member (limit 1)	\$99	\$299	_____	_____
Member Neurologist	\$199	\$299	_____	_____
Nonmember	\$249	\$299	_____	_____

### SHIPPING AND HANDLING

\$10.00 US/Canada

\$35.00 International

All products will be fulfilled and shipped after the meeting (typically 6-8 weeks post-meeting).

### Please send:

Grand Total \$ \_\_\_\_\_

Shipping (see left) \$ \_\_\_\_\_

**Total amount due** \$ \_\_\_\_\_

**PRICE INCLUDES APPLICABLE SALES TAX**

For questions please email at [support@CMEonCall.com](mailto:support@CMEonCall.com)

or by phone at (800) 501-2303 or (818) 240-7500 (International).

- Junior and Non-Neurologist Member  
 Member Neurologist     Nonmember

Name \_\_\_\_\_

Address (for shipping) \_\_\_\_\_

Address line 2 \_\_\_\_\_

City/State \_\_\_\_\_

ZIP/Postal code \_\_\_\_\_

Country \_\_\_\_\_

\*Phone \_\_\_\_\_

\*Email \_\_\_\_\_

### Payment (must accompany form):

Check (US funds only, do not send cash)

Make Payable to **Learner's Digest International**

VISA     MasterCard

American Express     Diners Club

Credit card number \_\_\_\_\_

Expiration date \_\_\_\_ / \_\_\_\_

Print name \_\_\_\_\_

Signature \_\_\_\_\_

*\*(Phone and email are required for product fulfillment/shipping purposes only)*

**Order conveniently online at [www.CMEonCall.com/aan](http://www.CMEonCall.com/aan)**

## CME/Accreditation/Core Competencies

### Accreditation Statement

The American Academy of Neurology Institute (the American Academy of Neurology's education affiliate) is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to provide continuing medical education (CME) for physicians.

### American Medical Association (AMA) Credit Designation Statement

The American Academy of Neurology Institute designates this live activity for a maximum number\* of *AMA PRA Category 1 Credits*™. Physicians should only claim the credit commensurate with the extent of their participation in the activity.

### CME/Attendance Records

The AAN Institute, as an ACCME accredited provider, has mechanisms in place to record and, when authorized by the participating physician, verify participation in the CME activity. Confirmation of participation and CME credits earned at the 2012 AAN Annual Meeting will be available to members approximately four to six weeks after the Annual Meeting via the AAN's NeuroTracker ([www.aan.com/go/education/neurotracker](http://www.aan.com/go/education/neurotracker)). Nonmembers' participation and CME credits earned will be sent via mail.

### Core Competencies

The AAN/AAN Institute develops its activities/educational interventions in the context of the desirable physician attributes. Specifically, the AAN Institute develops its educational interventions in the contents of the Accreditation Council for Graduate Medical Education (ACGME) Core Competencies which include:

- Patient Care
- Medical Knowledge
- Interpersonal and Communication Skills
- Practice-Based Learning and Improvement
- Professionalism
- Systems-Based Practice

(For more information on the definitions of the ACGME core competencies, please consult the following webpage: [www.acgme.org/outcome/comp/compmin.asp](http://www.acgme.org/outcome/comp/compmin.asp))

Once again, this year's Annual Meeting CME offerings, at the program and lecture level, are identified according to these competencies. Through identifying individual programs by competencies, attendees can easily identify and attend programs that meet each core competency.

### AMA CME Definition

"CME consists of educational activities which serve to maintain, develop, or increase the knowledge, skills, and professional performance and relationships that a physician uses to provide services for patients, the public or the profession. The content of CME is the body of knowledge and skills generally recognized and accepted by the profession as within the basic medical sciences, the discipline of clinical medicine and the provision of health care to the public." Accredited CME providers may certify nonclinical subjects (e.g. office management, patient-physician communication, faculty development) for *AMA PRA Category 1 Credit*™ as long as these are appropriate to a physician audience and benefit the profession, patient care, of public health. CME activities may describe or explain complementary and alternative health care practices. As with any CME activity, these need

to include discussion of the existing level of scientific evidence that supports the practices. However, education that advocates specific alternative therapies or teaches how to perform associated procedures, without scientific evidence or general acceptance among the profession that support their efficacy and safety, cannot be certified for *AMA PRA Category 1 Credit*™.

### Content Validation

The AAN Institute, as an ACCME accredited provider, is responsible for validating the clinical content of CME activities that it provides. Specifically, 1. All the recommendations involving clinical medicine in a CME activity must be based on evidence that is accepted within the profession of medicine as adequate justification for their indications and contraindications in the care of patients. 2. All scientific research referred to, reported or used in CME in support or justification of a patient care recommendation must conform to the generally accepted standards of experimental design, data collection and analysis.

## Disclaimers/Disclosures

### AAN/AAN Institute Education/Scientific Disclaimer

The primary purpose of the Annual Meeting is to meet the educational needs of its members and address practice gaps by providing practice-oriented and scientifically-based educational activities that will maintain and advance competence and performance in the field of neurology.

A diversity of opinions exists in the medical field and the views of the Annual Meeting faculty do not represent those of the AAN/AAN Institute or constitute endorsement by the AAN/AAN Institute. The AAN/AAN Institute disclaims any and all liability for the claims that may result from the use or non-use of information, publications, therapies, and/or services discussed at the Annual Meeting.

### Relationship Disclosure and Conflict of Interest Resolution

According to AAN/AAN Institute and ACCME policies, everyone who is in a position to control the content of an education activity must disclose financial relationships with any commercial interest to the provider. An individual who refuses to disclose relevant financial relationships is disqualified from being a planning committee member, a teacher, or an author of CME, and cannot have control of, or responsibility for, the development, management, presentation or evaluation of the CME activity. In addition, the AAN/AAN Institute must implement a mechanism to identify and resolve all conflicts of interest prior to the education activity being delivered to learners. The resolution of conflict is handled by the Education and Science Committees. Disclosures for everyone in the position to control Annual Meeting content can be found on the AAN Annual Meeting website. In addition, education and science faculty disclosures can also be found in the syllabi, slides, handouts, and/or is done verbally from the podium.

### Unlabeled Use Disclosure

The AAN/AAN Institute requires all Annual Meeting presenters to disclose if a therapy/product is not labeled for the use being discussed or if the therapy/product is still investigational. Unlabeled use disclosures can be found in the program materials.

## Education Grants

Some Annual Meeting education and scientific programs are supported in part by educational grants from commercial entities. Disclosure of the educational grant is done through acknowledgement statements on the program materials, signs outside of the room, and verbally from the podium. Although educational grants are received, all programs are developed and implemented solely by the Education Committee and Science Committee. The terms, conditions, and purposes of the commercial support are documented in a written agreement between the AAN/AAN Institute and commercial supporter. The AAN uses grant funds to support and enhance existing, as well as new, education programs.

## Services

### Child Care Information

A variety of child care options is available in New Orleans. Check with the concierge at your hotel on or before your arrival to make your arrangements.

### Shuttle Service

Complimentary shuttle bus service will be provided between designated official AAN hotels and the convention center. Schedules will be available at the New Orleans Ernest N. Morial Convention Center and will also be posted in each hotel lobby.

### Internet Center

The AAN strives to offer the latest in technological products and services designed to make communicating between the office, colleagues, or family easier while attending the 64<sup>th</sup> Annual Meeting.

The Internet Center provides attendees with computer workstations and Internet access. Check email, enter course or session notes, search the AAN website, or complete online evaluations to obtain CME Credit.

### Wireless Connection

Wireless Internet hotspots will be available at the New Orleans Ernest N. Morial Convention Center.

### Business Center

The New Orleans Ernest N. Morial Convention Center has a business center that offers administrative and office services, including copy machines, faxes, and shipping services. The business center is located on the lobby level of the New Orleans Ernest N. Morial Convention Center.

### First Aid Station

A First Aid station is located on the lobby level of the New Orleans Ernest N. Morial Convention Center. The station is staffed by licensed medical professionals and fully equipped with supplies, including automatic external defibrillators (AED). The station is operational throughout the duration of the Annual Meeting.

## Guidelines

### Photography and Recording of Programs

The AAN strictly prohibits all unauthorized photography (flash, digital, or otherwise), audio and/or videotaping during the Annual Meeting. Equipment will be confiscated. Photography is allowed only in the Poster Sessions.

### Consent to Use of Photographic Images

Registration and attendance at, or participation in, AAN/AANI meetings and other related activities constitutes attendee's

authorization to AAN's use and distribution (both now and in the future) of the attendee's image or voice in photographs, video recordings, electronic reproductions, and audio recordings of the events and activities throughout the world and royalty free.

### Cell Phones

The AAN requests that attendees turn cellular phones and pagers to vibrate mode upon entering all Annual Meeting programs.

### Language

The official language of the Annual Meeting is English. No simultaneous translation is available.

### No Smoking

The New Orleans Ernest N. Morial Convention Center is a nonsmoking facility. For the health and comfort of everyone, smoking is prohibited at Annual Meeting functions, which include all education and scientific activities and social functions.

### Press Room

Only authorized media may use the Press Room at the Annual Meeting. Journalists must check in at the Press Room and provide proper credentials. For more information, contact Angela Babb at [ababb@aan.com](mailto:ababb@aan.com) or (651) 695-2789.

## Volunteer Opportunities

### Education and Scientific Program Monitors

Monitors are needed for all education program offerings and scientific platform sessions to assist directors, faculty, session co-chairs, and staff as required. The AAN will waive monitors' Annual Meeting registration and education program fees for the monitored program. Space is available on a first-come, first-served basis. For an application form or more information, contact Nate Kosher at [nkosher@aan.com](mailto:nkosher@aan.com) or (651) 332-8674.

### EMG Skills Workshop Volunteers

Volunteers are needed to participate in the EMG Clinical Skills Workshops on Sunday, April 22, and Thursday, April 26. Volunteers are also needed to participate in the Neurophysiologic Intraoperative Monitoring Skills Workshop on Monday, April 23. Skills workshop subjects will receive a waived meeting registration and workshop fee as well as payment of \$40 per noninvasive session and \$60 per invasive session. Space is available on a first-come, first-served basis. For more information, contact Elizabeth Busch at [ebusch@aan.com](mailto:ebusch@aan.com) or (651) 332-8685.

### Weather/Attire

The climate in New Orleans in early spring is generally warm and pleasant. In April, temperatures usually range from 68 degrees to 84 degrees Fahrenheit. The AAN promotes business casual attire for the duration of the Annual Meeting. Consider bringing a light jacket or sweater to Annual Meeting activities since meeting room temperatures and personal comfort levels vary.

## NEW Online Registration

AMERICAN ACADEMY OF NEUROLOGY

Already Have an Account? Log-In  Email:  Password:  GO!

**2012 Annual Meeting**  
April 21 – April 28

*New Orleans 2012*

It's YOUR Meeting, it's YOUR Experience.

The 64th Annual Meeting is all about tailoring to YOUR needs, YOUR interests. Whether you're planning to take in just two days, all eight or extend your stay after the meeting to enjoy Jazz Fest, there is a wide array of education, science, practice programs and events – and, of course, the beauty of New Orleans. It's YOUR experience, so make this YOUR meeting.

**New this year** – To help you plan YOUR trip to New Orleans, we've created a new planning tool that will help you customize your schedule, search for sessions, register for the meeting, and book your hotel room. Just click the button below to get started. It's that easy!

Get Started

**NEW THIS YEAR!** The AAN online registration site has been redesigned to create a more efficient and convenient way for you to register for YOUR Annual Meeting. Now you can:

- Register quickly and easily
- Make your hotel selection and reservation
- Create your itinerary incorporating your education programs and scientific sessions and other Annual Meeting events
- Print your schedule and not miss a thing at the meeting!

## Fees

### General Registration Fee

The general registration fee is mandatory for all registrants and is determined by AAN member type.

### Get 50% Off Education Program Registration!

Juniors Members who register for two Education Programs at full price can receive 50% off the cost of a third education program of equal or lesser value!

### Not a Member?

- Become an AAN member and receive significant discounts on Annual Meeting registration and Education Program fees. For an AAN membership application, contact AAN Member Services at (800) 879-1960 or (651) 695-2717, or visit [www.aan.com/go/membership/join](http://www.aan.com/go/membership/join)
- If you are a Medical Student/PhD Candidate nonmember: To be eligible for the student rate as a nonmember, a student ID card or a letter from a professor must be submitted by fax to (415) 293-4071. The general Annual Meeting registration fee will be waived but nonmember rates must be paid for all education programs.

### Underserved Countries

If you are an AAN member and from one of the following countries, you are entitled to receive a waived general registration fee and access to lower cost hotels. In addition, you may, also participate in the Rush Line (see page 39) for free education programs.

The countries are: Afghanistan, Bangladesh, Benin, Burkina Faso, Burundi, Cambodia, Central African Republic, Chad, Comoros, Dem. Rep. Congo, Eritrea, Ethiopia, The Gambia, Guinea, Guinea-Bissau, Haiti, Kenya, Dem. Rep. Korea, Kyrgyz Republic, Liberia, Madagascar, Malawi, Mali, Mozambique, Myanmar, Nepal, Niger, Rwanda, Sierra Leone, Somalia, Tajikistan, Tanzania, Togo, Uganda, Zimbabwe.

## Scientific Program Presenters

All platform, poster, Integrated Neuroscience, and Future of Neuroscience Conference abstract presenters must submit a registration form and pay the applicable registration fee.

## Changes in Education Programs

Select education programs carefully. An administrative fee of \$20 will be charged for each program change or cancellation. After March 28, 2012, changes must be made on-site and will be charged an administrative fee of \$30 for each program change or cancellation.

**Many programs and events are FREE with your badge. See page 40 for details.**

## Canceled or Closed Programs

Education programs may be canceled or closed due to capacity or insufficient enrollment. In the event of cancellation, registration for the cancelled course will be fully refunded. The AAN is not responsible for airfare, hotel, or other costs incurred by participants in the event of program or registration cancellation.

## Cancellations/Refunds of Registration

<b>Until March 28, 2012</b>	Refund less \$50 administrative fee
<b>March 29–April 13, 2012</b>	Refund less \$100 administrative fee
<b>After April 13, 2012</b>	No refund

- All cancellations must be submitted in writing to [aanreg@cmrus.com](mailto:aanreg@cmrus.com) or faxed to (415) 293-4071.
- No-shows will not receive a refund.
- Name substitutions are not permitted.
- No refunds will be processed for amounts of \$20 or less.
- Credit card refunds will be processed 4–6 weeks after request. Check refunds will be processed 4–6 weeks after Annual Meeting.
- Programs are subject to cancellation if enrollment is insufficient.

## Special Accommodations Deadline: March 28

The New Orleans Ernest N. Morial Convention Center and the AAN are in compliance with the Americans with Disabilities Act or Human Rights Code and strive to accommodate all visitors. Information booths, designated parking, and assisted listening devices are available. If you require special accommodation to attend the Annual Meeting, contact Lori Strachota no later than March 28, 2012, at [lstrachota@aan.com](mailto:lstrachota@aan.com) or (651) 695-2706.

Kosher meals can be provided at any breakfast or lunch, and must be arranged on or before March 28, 2012, by contacting AAN Registration/CMR at [aanreg@cmrus.com](mailto:aanreg@cmrus.com), (800) 676-4226, or (415) 979-2283. There is a \$25 surcharge per meal. On-site requests cannot be accommodated.

## Group Registration Deadline: March 28

Group registrations are those in which 10 or more individuals' fees are paid for with one check or credit card. Contact CMR's Group Registration at (800) 676-4226 (US/Canada) or (415) 979-2283 (international) to receive special registration instructions. See page 134 for housing information.

**If you wish to register via mail or fax, complete the form on page 133 using the following steps:**

### Step 1: Personal Information

Confirmation letters, name badge, tickets, and CME transcripts will be mailed to the address provided.

### Step 2: Education Programs and Subspecialty in Focus

Enter the program number on the line.

### Step 3: Fees

**Box A:** General Registration Fee: Select the appropriate fee.

**Box B:** Education Program Fees: Calculate the total fees using the Registration Worksheet.

**Box C and Box D:** AAN on Demand and Additional Activities (optional).

### Step 4: Commercial Mailings

Registrants' mailing and email addresses will be used for AAN-generated hard copy mailings and emails related to the Annual Meeting and provided to commercial entities. Check the box if you do not wish to receive hard copy mailings, invitations, and emails from commercial entities.

### Step 5: Payment

Indicate method of payment.

## Deadline: March 28

Registrations received after March 28, 2012, will be processed at a higher rate.

<b>Questions:</b>	<b>Online</b>	<a href="http://www.aan.com/view/am12register">www.aan.com/view/am12register</a>
	<b>Email</b>	<a href="mailto:aanreg@cmrus.com">aanreg@cmrus.com</a>
	<b>US/Canada</b>	(800) 676-4226
	<b>International</b>	(415) 979-2283

# Registration Worksheet

## Education Program Fee Schedule

Use this worksheet to calculate the fees for education programs. Tally the number of each type of program. Multiply the amount by the fee for your membership type. Transfer the total amount to Box B in Section 3. Fees on the registration form.

Note: Do not use this schedule for on-site registration. Neurologist member and nonmember fees increase \$20.00 per program on-site.

Program Type:	Junior and Non-Neurologist Member: (Junior, Intern, Research Scientist, Research Coordinators, Non-neurologist Clinician, Business Administrators, Students)	Member Neurologist: (Honorary, Senior, Fellow, Active, Associate)	Nonmember:
<b>Corresponds with "2.0 Education Program" on registration page 133</b>			
AC/PC (Half-Day Course)	_____ x \$45 = _____	_____ x \$115 = _____	_____ x \$145 = _____
CS (Case Studies)	_____ x \$75 = _____	_____ x \$110 = _____	_____ x \$150 = _____
EP* (Directors Conference)	_____ x \$125 = _____	_____ x \$255 = _____	_____ x \$385 = _____
ES (Extended Seminar)	_____ x \$75 = _____	_____ x \$110 = _____	_____ x \$150 = _____
FC (Full-Day Course)	_____ x \$90 = _____	_____ x \$225 = _____	_____ x \$280 = _____
KP (Kick-Off Program)	_____ x \$50 = _____	_____ x \$80 = _____	_____ x \$105 = _____
LP (Leadership Program)	_____ x \$90 = _____	_____ x \$225 = _____	_____ x \$280 = _____
MR (Morning Report)	_____ x \$60 = _____	_____ x \$85 = _____	_____ x \$115 = _____
NF (Neuro Flash)	_____ x \$60 = _____	_____ x \$85 = _____	_____ x \$115 = _____
NP (Neurology Skills Pavilion)	_____ x \$180 = _____	_____ x \$235 = _____	_____ x \$315 = _____
PW (PM Skills Workshop)	_____ x \$180 = _____	_____ x \$235 = _____	_____ x \$315 = _____
SC** (Science Conference)	_____ x \$100 = _____	_____ x \$155 = _____	_____ x \$210 = _____
SM (Seminar)	_____ x \$60 = _____	_____ x \$85 = _____	_____ x \$115 = _____
SW (Skills Workshop)	_____ x \$350 = _____	_____ x \$460 = _____	_____ x \$615 = _____
TP (Therapy Programs)	_____ x \$20 = _____	_____ x \$45 = _____	_____ x \$60 = _____

<b>Corresponds with "2.1 Subspecialty in Focus Tracks" on registration page 133</b>			
Subspecialty in Focus: Peripheral Nerve	_____ x \$85 = _____	_____ x \$220 = _____	_____ x \$280 = _____
Subspecialty in Focus: Cerebrovascular Disease	_____ x \$85 = _____	_____ x \$220 = _____	_____ x \$280 = _____
Subspecialty in Focus: Aging and Dementia	_____ x \$85 = _____	_____ x \$220 = _____	_____ x \$280 = _____
Subspecialty in Focus: Epilepsy	_____ x \$85 = _____	_____ x \$220 = _____	_____ x \$280 = _____
Subspecialty in Focus: Movement Disorders	_____ x \$85 = _____	_____ x \$220 = _____	_____ x \$280 = _____
Subspecialty in Focus: Child Neurology	_____ x \$85 = _____	_____ x \$220 = _____	_____ x \$280 = _____
<b>Total Education Program Fees</b> (Enter in Box B on Registration Form):			_____

\* If you are attending the Clerkship and Program Directors' Conference (1EP.001) only and no other Annual Meeting events, the cost increases \$50.

\*\* If you are attending the Future of Neuroscience Conference (7SC.001) only, and no other Annual Meeting events, the cost increases \$70 (\$170 on-site) and includes Thursday and Friday Scientific events. Medical students and PhD candidates may attend at no charge but MUST register and receive a ticket.

## 2012 AAN On Demand Product Fees

Use this table to calculate the fees for AAN On Demand products. Tally the number of each type of product. Multiply the amount by the fee for your membership type. Transfer the total amount to Box D in Section 3. Fees on the registration form.

<b>Corresponds with "3. Fees" section, Box D on registration page 133</b>			
Program Type:	Junior and Non-Neurologist Member:	Member Neurologist:	Nonmember:
<b>AAN On Demand and Syllabi on CD</b> Online Webcast access, USB for offline access, downloadable MP3 files, and Syllabi on CD	_____ x \$399 = _____	_____ x \$599 = _____	_____ x \$699 = _____
<b>Syllabi on CD</b>	_____ x \$99 = _____	_____ x \$199 = _____	_____ x \$249 = _____
<b>Total Product Fees</b> (Enter in Box D on Registration Form):			_____

# AAN 64<sup>th</sup> Annual Meeting Registration Form—Deadline: March 28, 2012

Register Online: [www.aan.com/view/am12register](http://www.aan.com/view/am12register)

## 1. Personal Information

One form per registrant

AAN ID Number \_\_\_\_\_ Primary Focus of Practice \_\_\_\_\_

Name (last, first, middle initial) and degree (MD, DO, PhD, RN) \_\_\_\_\_

Address \_\_\_\_\_

City/State/Country \_\_\_\_\_ ZIP/Postal Code \_\_\_\_\_

Telephone \_\_\_\_\_ Fax \_\_\_\_\_

Email \_\_\_\_\_

## 2.0 Education Programs

There is a fee for each selected Education Program. Calculate the total in the Education Program Fee Schedule on page 132 and enter in Box B in the Fees section. To register for a program, shade the box and enter the complete number of the program on the line.

### Saturday, April 21, 2012 I will need breakfast/lunch on this day

1AC. \_\_\_\_\_  1FC. \_\_\_\_\_  1PC. \_\_\_\_\_  
 1EP. \_\_\_\_\_  1KP. \_\_\_\_\_

### Sunday, April 22, 2012 I will need breakfast/lunch on this day

2AC. \_\_\_\_\_  2MR. \_\_\_\_\_  2SM. \_\_\_\_\_  
 2ES. \_\_\_\_\_  2NF. \_\_\_\_\_  2SW. \_\_\_\_\_  
 2FC. \_\_\_\_\_  2PC. \_\_\_\_\_  
 2LP. \_\_\_\_\_  2SM. \_\_\_\_\_

### Monday, April 23, 2012 I will need breakfast/lunch on this day

3AC. \_\_\_\_\_  3LP. \_\_\_\_\_  3SM. \_\_\_\_\_  
 3ES. \_\_\_\_\_  3MR. \_\_\_\_\_  3SM. \_\_\_\_\_  
 3ES. \_\_\_\_\_  3NF. \_\_\_\_\_  3SW. \_\_\_\_\_  
 3FC. \_\_\_\_\_  3PC. \_\_\_\_\_

### Tuesday, April 24, 2012 I will need breakfast/lunch on this day

4NP. \_\_\_\_\_  4PC. \_\_\_\_\_  4SM. \_\_\_\_\_

### Wednesday, April 25, 2012 I will need breakfast/lunch on this day

5NP. \_\_\_\_\_  5PW. \_\_\_\_\_  5SM. \_\_\_\_\_  
 5PC. \_\_\_\_\_

### Thursday, April 26, 2012 I will need breakfast/lunch on this day

6CS. \_\_\_\_\_  6SM. \_\_\_\_\_  6NP. \_\_\_\_\_  
 6PC. \_\_\_\_\_  6NF. \_\_\_\_\_  6SW. \_\_\_\_\_

### Friday, April 27, 2012 I will need breakfast/lunch on this day

7AC. \_\_\_\_\_  7PC. \_\_\_\_\_  7TP. \_\_\_\_\_  
 7FC. \_\_\_\_\_  7PW. \_\_\_\_\_  7TP. \_\_\_\_\_  
 7MR. \_\_\_\_\_  7SC. \_\_\_\_\_  7TP. \_\_\_\_\_  
 7NF. \_\_\_\_\_  7SM. \_\_\_\_\_

### Saturday, April 28, 2012 I will need breakfast/lunch on this day

8AC. \_\_\_\_\_  8SM. \_\_\_\_\_  8SM. \_\_\_\_\_  
 8ES. \_\_\_\_\_

## 2.1 Subspecialty in Focus Tracks (See page 132 for more information)

### Saturday, April 21 - Sunday, April 22

**SIP-PN** Subspecialty In Focus: Peripheral Nerve Attending  \_\_\_\_\_  
 (Includes **1PC.001, 2PC.006**, and Integrated Neuroscience Session).

### Sunday, April 22-Monday, April 23

**SIP-CV** Subspecialty In Focus: Cerebrovascular Disease Attending  \_\_\_\_\_  
 (Includes **2AC.007, 3AC.006**, and Integrated Neuroscience Session).

### Sunday, April 22-Monday, April 23

**SIP-A/D** Subspecialty In Focus: Aging and Dementia Attending  \_\_\_\_\_  
 (Includes **2PC.005, 3PC.005**, and Integrated Neuroscience Session).

### Monday, April 23-Tuesday, April 24

**SIP-EP** Subspecialty In Focus: Epilepsy Attending  \_\_\_\_\_  
 (Includes **3AC.007, 4PC.005**, and Integrated Neuroscience Session).

### Monday, April 23-Tuesday, April 24

**SIP-MD** Subspecialty In Focus: Movement Disorders Attending  \_\_\_\_\_  
 (Includes **3AC.008, 4PC.006**, and Integrated Neuroscience Session).

### Thursday, April 26-Friday, April 27

**SIP-CN** Subspecialty In Focus: Child Neurology Attending  \_\_\_\_\_  
 (Includes **6PC.005, 7PC.006**, and Integrated Neuroscience Session).

## 3. Fees

### BOX A: General Registration Fee

	Before March 28	After March 28
<b>Student</b>	\$0	\$0
<b>Junior and Non-Neurologist Member</b> <small>(Junior, Intern, Business Administrator, Non-Neurologist Clinician, Research Scientist, Research Coordinators)</small>	\$100	\$130
<b>Member Neurologist</b> <small>(Active, Associate, Fellow)</small>	\$305	\$420
<b>Member Neurologist</b> <small>(Senior, Honorary)</small>	\$0	\$0
<b>Nonmember</b>	\$610	\$840

### BOX B: Education Program Fees

Calculated in program fee schedule on page 132 \_\_\_\_\_

### BOX C: Additional Opportunities (Check all that apply)

<b>Celebration for Research Guest Tickets</b> <small>(one free ticket per registrant)</small>	\$50 ea.
<b>Run/Walk for Brain Research</b>	\$25 ea.
<b>AAN and AAN Foundation Awards Luncheon</b> <small>(Junior Members and Students free upon request)</small>	\$50 ea.
<b>Support Research, Buy a Brain</b>	\$5 ea.

### BOX D: AAN On Demand Products

AAN On Demand and Syllabi on CD \_\_\_\_\_ Syllabi on CD \_\_\_\_\_

Calculated in product fees on page 132 \_\_\_\_\_

Registrations received after March 28, 2012, will be processed at higher rates. **TOTAL** \_\_\_\_\_

## 4. Commercial Mailings

I do not wish to receive hard copy mailings, invitations, and emails from commercial entities.

## 5. Payment

Check/Money Order Payment must accompany registration. Make check payable to AAN Institute (US funds only). A \$25 charge will apply to checks returned for insufficient funds.

VISA  Master Card  American Express  Diner's Club

**Card number:** \_\_\_\_\_

**Expiration date:** \_\_\_\_\_ / \_\_\_\_\_

I authorize the AAN Institute to charge my credit card the amount determined by the AAN Institute as registration fees.

Register by fax or mail:

Online: [www.aan.com/view/am12register](http://www.aan.com/view/am12register)

Fax: (415) 293-4071

Mail: AAN Registration/CMR, 33 New Montgomery, Suite 1100, San Francisco, CA 94105

Signature \_\_\_\_\_ Fed ID# 41-0726167AANI

## AAN Online Hotel Reservations

[www.aan.com/view/am12register](http://www.aan.com/view/am12register)

- The AAN's newly designed registration site makes it easy and convenient to book your hotel rooms for the 64<sup>th</sup> Annual Meeting. Booking online allows you to:
  - Take advantage of the AAN's special hotel rates
  - View room descriptions, photos, and availability
  - Access maps of hotel proximity to Annual Meeting locations
- Booking online/see page 136 for map, hotel locations, and amenities.

## Deposits

- All hotels require a credit card guarantee or a check deposit of \$300 (US dollars) per room and \$500 (US dollars) per suite. Deposits will be credited towards your first night's room and tax.
- No hotel reservation will be processed without a credit card guarantee or a deposit.
- Deposits are refundable up to seven days prior to arrival, after which there will be no refunds.
- Credit cards will be charged for one night's room and tax if you fail to arrive on the confirmed date of arrival or if you fail to cancel your reservation at least seven days prior to arrival.

## Confirmations, Changes, and Cancellations

- You will receive your hotel confirmation from Convention Management Resources (CMR). This is the only confirmation you will receive.
- Contact CMR if your housing confirmation is not received within one week of mailing.
- Please check your arrival and departure dates carefully.
- After March 21, 2012, you may still submit your hotel form to CMR. After this date, however, rooms are subject to availability.

*Note: Some hotels may charge a penalty for changes made to your departure date after you have checked in.*

## Affiliate Events / Meeting Rooms

A limited number of meeting rooms for affiliate meetings are available at the Hilton New Orleans Riverside, the Marriott Convention Center, and the Hampton Inn.

An affiliate event is any event affecting Annual Meeting attendees, including exhibitor staff that is outside of the official AAN Program, including but not limited to: alumni reunions, Advisory Board meetings, committee and Board meetings, exhibitor staff meetings, receptions, social events/dinners.

All events affecting attendees during the inclusive dates and location of the Annual Meeting must be reviewed and approved by the AAN before promotion and implementation of the event can occur. This applies to all events whether they are being held at AAN-contracted facilities or otherwise.

Please visit [www.aan.com/go/am12/affiliate](http://www.aan.com/go/am12/affiliate) for more information and to apply for meeting space online.

## Group Accommodations

Blocks of 10 or more sleeping rooms are considered a group. Fax your written request to (415) 293-4071 or email to [aanhousing@cmrus.com](mailto:aanhousing@cmrus.com) and you will be contacted by an AAN Housing Consultant.

## Additional Tax/Assessments

- Rates do not include the 13% New Orleans hotel tax, occupancy tax, sales tax, or hotel surcharge.
- An \$8 per night assessment fee is included to offset the expense of the meeting.

## Why Book a Hotel Room Through the AAN?

Booking your room through the official AAN housing company assures you are getting a room at the hotel that best fits your needs. You are also helping the AAN maintain consistent and competitive registration fees. The reason is simple. When a city is selected as the site for the AAN Annual Meeting, contracts are signed with several hotels reserving a specific number of rooms to be available for meeting attendees. If these rooms are not sold, the AAN is liable financially. Penalties incurred affect the overall costs of the Annual Meeting and what the AAN charges for registration, exhibit space, and other services.

## Mail, Fax, or Telephone Reservations

All correspondence, questions, and inquiries should be directed to CMR at:

33 New Montgomery, Suite 1100  
San Francisco, CA 94105

Online: [www.aan.com/view/am12register](http://www.aan.com/view/am12register)

US/Canada Phone: (800) 676-4226  
International Phone: (415) 979-2283  
6:00 a.m.–6:00 p.m. (PST)  
Fax: (415) 293-4071

email: [aanhousing@cmrus.com](mailto:aanhousing@cmrus.com)

*AAN Housing c/o CMR Credit card reservations only  
Credit card reservations only Monday–Friday*





# Hotel Map



# Hotel Map

	Hotel Name and Address	Rate	Smoke Free	Distance to Convention Center	Business Center	High Speed Internet \$/Day	Restaurants	Bars
1	<b>Astor Crowne Plaza</b> 739 Canal at Bourbon Street	\$208	Y	11 Blocks	Y	\$9.95	1	1
2	<b>Courtyard New Orleans / Convention Center</b> 300 Julia Street	\$197	Y	2 Blocks	Y	No Charge	0	1
3	<b>Courtyard New Orleans / Downtown</b> 124 St. Charles Avenue	\$197	Y	10 Blocks	Y	No Charge	1	1
4	<b>DoubleTree Hotel New Orleans</b> 300 Canal Street	\$209	Y	6 Blocks	Y	No Charge	1	1
5	<b>Embassy Suites New Orleans</b> 315 Julia Street	\$239	Y	3 Blocks	Y	No Charge	1	1
6	<b>Hampton Inn and Suites New Orleans Convention Center</b> 1201 Convention Center Boulevard	\$179 to \$189	Y	1 Block	Y	No Charge	0	1
7	<b>Hilton Garden Inn New Orleans Convention Center</b> 1001 S. Peters Street	\$169	N	1 Block	Y	No Charge	1	1
8	<b>Hilton New Orleans Riverside (Headquarters Hotel)</b> 2 Poydras Street	\$249	N	3 Blocks	Y	No Charge	4	1
9	<b>Hyatt Place (formerly known as Hotel New Orleans)</b> 881 Convention Center Blvd.	\$194	Y	1 Block	Y	Y	1	1
10	<b>Intercontinental New Orleans</b> 444 St. Charles Avenue	\$239	N	8 Blocks	Y	\$10.95	2	2
11	<b>JW Marriott New Orleans</b> 614 Canal Street	\$228	Y	10 Blocks	Y	\$14.95	2	2
12	<b>Loews New Orleans</b> 300 Poydras Street at S. Peters Street	\$289	Y	4 Blocks	Y	No Charge	1	1
13	<b>New Orleans Marriott</b> 555 Canal Street	\$217	Y	10 Blocks	Y	\$14.95	2	1
14	<b>New Orleans Marriott at the Convention Center</b> 859 Convention Center Boulevard	\$238	Y	1 Block	Y	\$14.95	1	1
15	<b>Renaissance Arts Hotel</b> 700 Tchoupitoulas Street	\$228	Y	3 Blocks	Y	\$12.95	1	1
16	<b>Residence Inn New Orleans Downtown</b> 345 St. Joseph Street	\$202	Y	3 Blocks	Y	No Charge	0	0
17	<b>The Ritz Carlton, New Orleans</b> 921 Canal Street	\$275	Y	12 Blocks	Y	\$12.95	1	2
18	<b>SpringHill Suites New Orleans Downtown</b> 301 St. Joseph Street	\$197	Y	2 Blocks	Y	No Charge	0	0
19	<b>W New Orleans - French Quarter</b> 316 Chartres Street	\$269 to \$289	Y	11 Blocks	Y	\$14.95	0	0
20	<b>W Hotel New Orleans</b> 333 Poydras Street	\$249 to \$269	Y	4 Blocks	Y	\$14.95	1	1
21	<b>Westin New Orleans Canal Place</b> 100 Rue Iberville	\$209 to \$219	Y	7 Blocks	Y	\$12.95	1	1
22	<b>Windsor Court</b> 300 Gravier Street	\$289	Y	5 Blocks	Y	No Charge	1	1
23	<b>Wyndham Riverfront New Orleans</b> 701 Convention Center Boulevard	\$229	Y	2 Blocks	Y	\$12.95	1	1
24	<b>Le Pavillon Hotel</b> 833 Poydras Street, New Orleans, LA	\$149	Y	9 Blocks	Y	No Charge	2	1
★25	<b>Ernest N. Morial Convention Center</b> 900 Convention Center Boulevard							

Key

- ★ Convention Center
- Headquarters Hotel

## Save on Travel Arrangements

Book your travel now to New Orleans and take advantage of special airline discounts available to meeting attendees and their companions.

## Airport

New Orleans is served by the Louis Armstrong New Orleans International Airport, which is located approximately 13 miles from the New Orleans downtown area and New Orleans Ernest N. Morial Convention Center.

## Reservations and Discounts

### Carlson Wagonlit Travel

Carlson Wagonlit Travel is the official travel agency for the Annual Meeting. For discounted airline tickets to the Annual Meeting contact Carlson Wagonlit Travel at:

Phone: (866) 978-1071

Email: [mspaangroups.us@contactcwt.com](mailto:mspaangroups.us@contactcwt.com)

Hours: Monday–Friday, 7:30 a.m.–5:00 p.m. CST

Closed weekends and holidays

A \$24 domestic, or \$52 international, service fee will be assessed per ticket.

## Direct Through Airlines

You may also contact your preferred airline directly and receive a 2- to 10-percent discount off regularly published fares. You must reference the AAN Annual Meeting and provide the appropriate airline discount codes listed below.

Airline	Discount Codes	Phone Number	Website
American	3642BJ	(800) 433-1790	<a href="http://www.aa.com">www.aa.com</a>
Delta	NM7VW	(800) 328-1111	<a href="http://www.delta.com">www.delta.com</a>
United	587HY	(800) 521-4041	<a href="http://www.united.com">www.united.com</a>

Discounts are subject to availability—book well in advance. Normal mileage and status upgrades apply for all airline programs. A service fee will be charged for reservations made via phone.

## Travel Website

For travel forms and information updates, visit the AAN Annual Meeting website at [www.aan.com/am](http://www.aan.com/am).

## Travel Tips Information for Non-US Visitors

## Travel Documents/Passports and Entry Requirements

Non-US visitors must have valid travel documents/passports to enter New Orleans to provide proof of their citizenship. Document requirements vary depending on your country of origin, citizenship, the reason for your visit, and the length of your stay, and may include passport or a birth certificate, photo ID, and/or a visa. For more information, visit [www.aan.com/go/am12/travel](http://www.aan.com/go/am12/travel). To request a Letter of Announcement for the 2012 Annual Meeting, visit [www.aan.com/annualmeeting/letters](http://www.aan.com/annualmeeting/letters).

## Currency

New Orleans' currency is the US dollar; currency exchange is available at banks and kiosks throughout the city and at the airport. Cash machines/ATMs are available in most banks, hotels, and shopping centers. For denominations under one dollar, the currency is coins.

## Customs and Immigration

Upon arriving in New Orleans, you will be required to go through a US Customs and Border Protection (CBP) inspection. Before you land, your flight crew will distribute an Immigration and Customs Declaration Form for you to complete; forms are also available at the airport upon your arrival. You will need to present this form, along with your passport, visa (if any), and return tickets to the CBP officer.

## Measurements

New Orleans uses the United States customary system for weights and measurements. If you choose to drive in New Orleans, be aware the speed limits are posted in miles per hour instead of kilometers per hour.

## Medication

If you are entering New Orleans with prescription drugs and syringes: keep the medication in its original, labeled container; include medical certificate with syringes showing they are for medical use and have them declared to US Customs officials; bring an extra prescription in case your medication is lost and/or to attest to your need to take such prescriptions; and carry the generic name of prescription medicines.

For more information, visit [www.aan.com/am](http://www.aan.com/am).

## Time Zone

New Orleans is in the Central Standard Time Zone. In April it will be two hours ahead of Los Angeles, the same as Chicago, one hour behind New York, six hours behind London, and 14 hours behind Tokyo.

# 2012 Annual Meeting Supporters

## Thank You

### **Acorda Therapeutics, Inc.**

- 4/23 Door Drop Insert
- Exhibit Guide

### **The Allergan Foundation**

- Minority Scholars Program & Visiting Professor Program
- Resident and Medical Student Scholarship Fund

### **Allergan, Inc.**

- 2AC.001 Tips, Tools and Tricks to Diagnose and Treat Primary Headache Disorders
- 2PC.001 Advances in Chronic Migraine
- 7PW.001 Clinical Usefulness of Botulinum Toxin and Treatment of Dystonia
- Corporate Therapeutic Update
- Exhibit Guide

### **AVI BioPharma**

- Exhibit Hall Passport

### **Biogen Idec, Inc.**

- Corporate Therapeutic Update

### **Cadwell Laboratories**

- Exhibit Hall Passport
- In kind support for 3SW.001 Neurophysiologic Intraoperative Monitoring

### **CareFusion, NeuroCare**

- In kind support for 2SW.001 EMG Skills Workshop: Basic
- In kind support for 3SW.001 Neurophysiologic Intraoperative Monitoring
- In kind support for 6SW.001 Advanced Techniques in EMG and Neuromuscular Disease
- In kind support for 7PW.001 Clinical Usefulness of Botulinum Toxin and Treatment of Dystonia
- In kind support for the Brain Health Fair™

### **Community Health Systems**

- Exhibit Guide

### **Continuum® in partnership with Lippincott, Williams, and Wilkins**

- Book Bags
- Internet Center
- Residents and Fellows Career Forum and Reception
- Resident Scholarship Fund
- Shuttle Bus Service
- WIFI Access

### **Depomed, Inc.**

- AANextra

### **Elan Pharmaceuticals**

- 3ES.004 Improving Accuracy of Dementia Diagnosis: Case Studies with Both Imaging and Neuropathology

### **Eli Lilly and Company**

- Corporate Therapeutic Update
- Presentation Stage

### **EMD Serono, Inc.**

- Celebration for Research - Gold Level Sponsor

### **Genzyme a Sanofi company**

- 4/23 Door Drop Insert
- 4/24 Door Drop Insert
- 4/24 Exhibit Hall Coffee Break
- AANextra
- Abstracts on CD
- Brain Health Fair™ - Platinum Event Sponsor
- Buy A Brain® campaign
- Exhibit Guide

### **Ipsen**

- 7AC.004 Botulinum Toxins: Practical Issues and Clinical Uses for Neurologists
- Exhibit Guide
- Fellow Scholarship Fund
- Resident and Medical Student Scholarship Fund

### **Kronus, Inc.**

- 2PC.003 Autoimmune Neurology
- Exhibit Guide

### **MAP Pharmaceuticals, Inc.**

- 4/23 Door Drop Insert
- Banner Marketing
- Exhibit Hall Passport

### **Medtronic, Inc.**

- 1AC.002 Deep Brain Stimulation Management

### **Merck & Co., Inc.**

- 5PC.004 Parkinson's Disease and Movement Disorders Update

### **Merz Pharmaceuticals, LLC**

- 4SM.003 The Dystonias: Diagnosis, Treatment, and Update on Causes

### **Natus Medical Incorporated**

- In kind support for 2SW.001 EMG Skills Workshop: Basic
- In kind support for 6NP.001 Epilepsy Skills Pavilion
- In kind support for 6SW.001 Advanced Techniques in EMG and Neuromuscular Disease

### **Neurology® Clinical Practice in partnership with Lippincott, Williams, and Wilkins**

- Book Bags
- Exhibit Hall Food Service Area Banner
- Internet Center
- Shuttle Bus Service
- WIFI Access

### **Neurology® in partnership with Lippincott, Williams, and Wilkins**

- Internet Center
- Residents and Fellows Career Forum and Reception
- Resident Scholarship Fund
- Shuttle Bus Service
- WIFI Access

### **Neurology Now® in partnership with Lippincott, Williams, and Wilkins**

- Brain Health Fair™ - Gold Event Sponsor
- Internet Center
- Shuttle Bus Service
- WIFI Access

### **Neurology Today® in partnership with Lippincott, Williams, and Wilkins**

- Internet Center
- WIFI Access

### **Nihon Kohden**

- In kind support for 2SW.001 EMG Skills Workshop: Basic

### **Novartis Pharmaceuticals Corporation**

- Corporate Therapeutic Update
- Exhibit Hall Footprints
- Presentation Stage

### **Peoples Health**

- Brain Health Fair™ – Bronze Event Sponsor
- Resident and Medical Student Scholarship Fund

### **Pfizer Inc**

- 4/23 Door Drop Insert
- 4/24 Newspaper Sleeve
- 7SM.004 Differential Diagnosis of Dementia: Linking Clinical Syndromes to Biomarkers
- Corporate Therapeutic Update (2)

### **PSAV - Presentation Services**

- Celebration for Research - Neuro Film Festival®

### **Supernus Pharmaceuticals, Inc.**

- 4/24 Door Drop Insert
- Exhibit Guide
- Exhibit Hall Passport

### **Teva Pharmaceuticals**

- 5K Run/1K Walk for Brain Research
- 5PC.004 Parkinson's Disease and Movement Disorders Update
- 7TP.003 Therapy of Movement Disorders
- Cell Phone Charging Station
- Residents and Fellows Career Forum and Reception

### **The Magstim Company Limited**

- In kind support for 3SW.001 Neurophysiologic Intraoperative Monitoring

### **The Neurologists' Program – PRMS**

- 2EC.001 Patient Safety Colloquium
- Exhibit Hall Passport
- The Experience

### **Yale-New Haven Hospital**

- AANextra



# Exhibitor Listing

AAN Enterprises, Inc.	Center	KabaFusion, LLC	REACH Health, Inc.
Abbott	Demos Medical Publishing	Karger Publishers	Remi Savioz Glut1 Foundation
Accera, Inc.	DENT Neurologic Institute	Kronus, Inc.	Rochester Electro-Medical, Inc.
Acorda Therapeutics, Inc.	Depomed, Inc.	La Lettre Du Neurologue	RPS Inc
Agency for Toxic Substances and Disease Registry	Digitrace Incorporated	Legacy Health	SanBio
Allergan, Inc.	Dystonia Medical Research Foundation	Lewy Body Dementia Association	Screen, Inc.
Alzheimer's Association	Electrical Geodesics, Inc. (EGI)	Lippincott, Williams & Wilkins - Wolters Kluwer Health	Society for Vascular & Interventional Neurology
American Association of Neuromuscular and Electrodiagnostic Medicine	Electro-Cap International, Inc.	LocumTenens.com	Solstice Neuroscience
American Board of Clinical Neurophysiology, Inc. (ABCN)	Eli Lilly and Company	Lundbeck Inc.	Spectrum Health Medical Group1
American Board of Psychiatry & Neurology (ABPN)	Elsevier / Clinical Key	MAP Pharmaceuticals, Inc.	Springer
American Board of Registration of EEG and EP Technologists (ABRET)	Elsevier, Inc.	Massaging Insoles By Superior Health, Inc.	St. Luke's Health System
American Headache Society	EMD Serono, Inc.	Mayo Clinic	Sunovion Pharmaceuticals Inc.
American Society of Neuroimaging (ASN)	Essentia Health	Mayo Medical Laboratories	Supernus Pharmaceuticals, Inc.
Aspirus Clinics	European Neurological Society (ENS)	McGraw-Hill	Synapse Biomedical
AssistRx	Faith Medical, Inc.	McKing Consulting Corporation	Terumo BCT (formerly Caridian BCT)
Athena Diagnostics, Inc.	Ferrell Duncan Clinic	MedLink Corporation	TEVA Neuroscience, Inc.
Aurora Health Care	Forest Pharmaceuticals, Inc.	Medtronic, Inc.	The Electrode Store
Austrian Society of Neurology	ForMemory, Inc. Building Hope in Early Onset Cognitive Challenges	Merz Pharmaceuticals, LLC	The Magstim Company Limited
Avanir Pharmaceuticals, Inc.	Foundation for Mitochondrial Medicine	Metanx	The Michael J. Fox Foundation for Parkinson's Research
AxelaCare Health Solutions	Fulcrum Strategies	MIGRAINE.COM	The Movement Disorder Society (MDS)
Baxter	GBS/CIDP Foundation International	Ministry Health Care	The National Intrepid Center of Excellence
Bayer HealthCare Pharmaceuticals	GE Healthcare	Mission Health	The Neurologists' Program
Benign Essential Blepharospasm Research Foundation, Inc.	GeneDx	MS-Leaders.org	The Reading Hospital and Medical Center
BioClinica, Inc.	Genentech, A Member of the Roche Group	Multigon Industries, Inc.	The Sturge-Weber Foundation
Biogen Idec	Genzyme a Sanofi Company	Multiple Sclerosis Association of America	Thieme Medical Publishers
Blackrock NeuroMed	GlaxoSmithKline	Multiple Sclerosis Foundation	Tourette Syndrome Association
Boehringer Ingelheim Pharmaceuticals, Inc.	Glut1 Deficiency Foundation	Muscular Dystrophy Association	Transgenomic, Inc
Borm Bruckmeier Publishing, LLC	Glycominds Inc.	National Ataxia Foundation	Tremor Action Network
Cadwell Laboratories, Inc.	Grass Technologies, An Astro-Med, Inc. Subsidiary	National Institute of Neurological Disorders and Stroke (NINDS)	Triangle BioSystems, Inc.
Cambridge Cognition Ltd	Great Lakes NeuroTechnology (formerly CleveMed)	National Multiple Sclerosis Society	TSE Systems, Inc.
Cambridge University Press	Grifols (formerly Talecris Biotherapeutics Inc.)	Natus Medical Incorporated	UCB, Inc.
CareFusion (Nicolet)	Healix Infusion Therapy, Inc.	Nautilus Neurosciences	United Council for Neurologic Subspecialties (UCNS)
Cleveland Clinic	Health and Science Opinion Research	NeurogesX, Inc.	University of Miami Gordon Center
Clinical Neurology	Heidelberg Engineering	Neurology Reviews	Upsher-Smith Laboratories, Inc.
Clinical Neurology News	Hospital Corporation of America (HCA)	Neurotrax	US Bioservices Specialty Pharmacy
CNS Therapeutics	IMPAX Pharmaceuticals	Neurovirtual USA, Inc.	Valley Baptist Health System
CNS Vital Signs	Innogenetics, Inc.	NextGen Healthcare	VISTA Staffing Solutions
Cognistat Inc.	International Essential Tremor Foundation (IETF)	Nihon Kohden America	Walgreens
Community Health Systems	Intersocietal Accreditation Commission (IAC)	Novartis	Wiley-Blackwell
Compumedics USA, Inc.	Intronix Technologies Corporation	Ochsner Health System	World Association of Sleep Medicine (WASM)
Computational Diagnostics, Inc	Ipsen	Otometrics	World Parkinson Coalition Inc.
Cone Health (aka Moses Cone Health System)	Jama & Archives Journals	Oxford University Press	WR Medical Electronics Co.
Cyberonics, Inc.	Jari Electrode Supply	Pamlab, LLC	XenoPort, Inc.
Dartmouth-Hitchcock Medical		PeaceHealth	
		Pfizer Inc.	
		Practical Neurology	
		PracticeLink.com	
		Questcor Pharmaceuticals, Inc.	

# 2012

## Corporate Roundtable Members\*

The American Academy of Neurology (AAN) and AAN Foundation thank 2012 Corporate Roundtable Members for their demonstrated vision, commitment, and strong support of neurologic research.

### \$40,000

Allergan, Inc.

Eli Lilly and Company

EMD Serono, Inc.

Genzyme a Sanofi company

Novartis Pharmaceuticals Corporation

Teva Pharmaceuticals

### \$30,000

Biogen Idec

IPSEN

### \$20,000

Acorda Therapeutics, Inc.

Boehringer Ingelheim Pharmaceuticals, Inc.

Forest Laboratories, Inc.

Genentech

Merck & Co., Inc.

Merz Pharmaceuticals, LLC

Pfizer Inc

PhotoThera, Inc.

Purdue Pharma L.P.

Questcor Pharmaceuticals, Inc.

Upsher-Smith Laboratories, Inc.

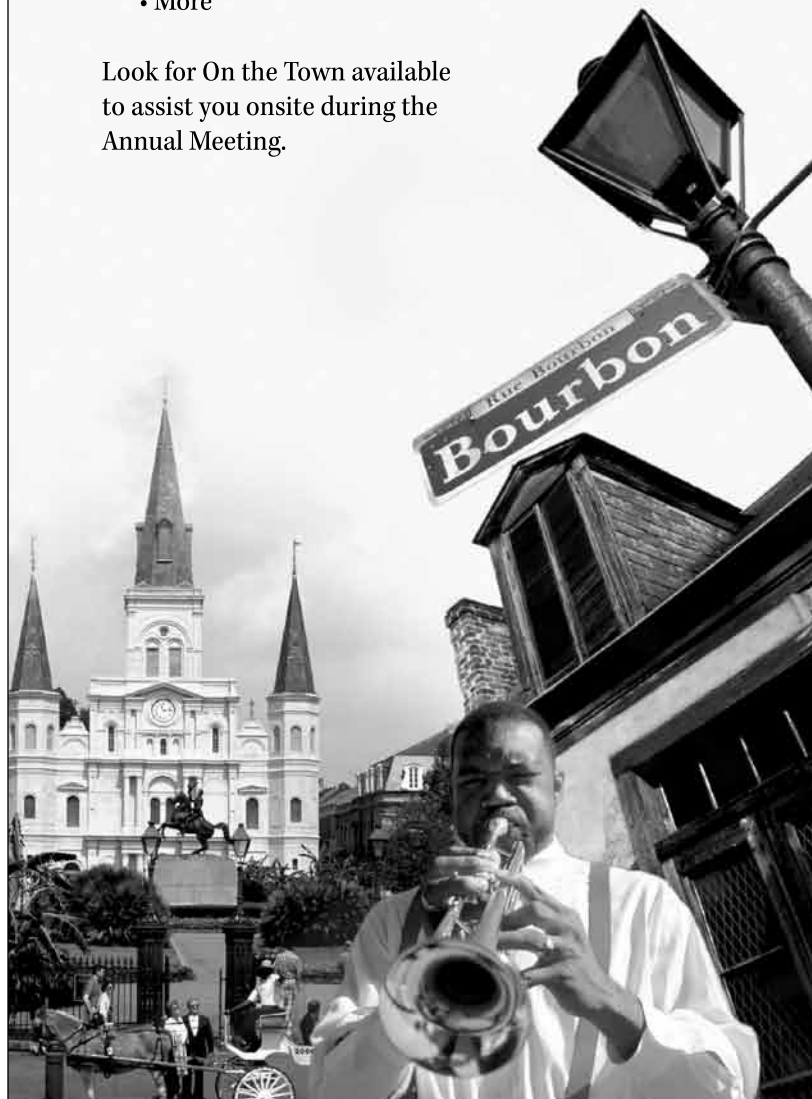
\*Current as of January 23, 2012

# Get the Best Advice on What to Do in New Orleans

On the Town is your resource for recommendations on not-to-be-missed opportunities to soak in the sights, sounds, and tastes that make New Orleans a world-class destination for fun.

- Restaurants
- Shopping
- Live music and entertainment
- More

Look for On the Town available to assist you onsite during the Annual Meeting.



# 64<sup>th</sup> Annual Meeting Committee Members

## Meeting Management Committee

Stanley Fahn, MD, FAAN, Chair  
Brenda Banwell, MD  
Neil A. Busis, MD, FAAN  
Terrence L. Cascino, MD, FAAN  
Cynthia L. Comella, MD, FAAN  
John Corboy, MD, FAAN  
Lisa M. DeAngelis, MD, FAAN  
Robert C. Griggs, MD, FAAN  
Jonathan P. Hosey, MD, FAAN  
Carlayne E. Jackson, MD, FAAN  
Ralph F. Jozefowicz, MD, FAAN  
John C. Mazziotta, MD, PhD, FAAN  
John C. Morris, MD, FAAN  
Sandra F. Olson, MD, FAAN  
Timothy A. Pedley, MD, FAAN  
Ronald C. Petersen, PhD, MD  
Stefan M. Pulst, MD, FAAN  
Stephen M. Sergay, MB BCh, FAAN  
Bruce Sigsbee, MD, FAAN, AAN President  
Austin J. Sumner, MD, FAAN  
Thomas R. Swift, MD, FAAN  
Patrick Toalson, RPh, BCPP

## Education Committee

Cynthia L. Comella, MD, FAAN, Chair  
Steven L. Lewis, MD, FAAN, Vice Chair  
Allen J. Aksamit, Jr., MD, FAAN  
Imran I. Ali, MD, FAAN  
Allison Brashear, MD, FAAN  
John W. Engstrom, MD, FAAN  
Charles C. Flippen, II, MD, FAAN  
J. Clay Goodman, MD, FAAN  
Sheri Hart, MD  
Jonathan P. Hosey, MD, FAAN  
John Markman, MD, FAAN  
Jennifer R. Molano, MD  
Mark L. Moster, MD, FAAN  
Joseph E. Safdieh, MD  
Lori Ann Schuh, MD, FAAN  
Joseph I. Sirven, MD, FAAN  
A. Gordon Smith, MD, FAAN

## Annual Meeting Subcommittee

Cynthia L. Comella, MD, FAAN, Chair  
J. D. Bartleson, MD, FAAN  
Bradley F. Boeve, MD  
Seemant Chaturvedi, MD, FAAN  
Bruce A. C. Cree, MD, PhD, MCR  
James Y. Garbern, MD, FAAN  
Susan T. Iannaccone, MD, FAAN  
Carlayne E. Jackson, MD, FAAN  
Kurt A. Jaeckle, MD, FAAN  
Dara G. Jamieson, MD  
Todd D. Rozen, MD, FAAN  
Bradley V. Vaughn, MD, FAAN

## Science Committee

Lisa M. DeAngelis, MD, FAAN, Chair  
Natalia Sana Rost, MD, Vice Chair  
Gregory K. Bergey, MD, FAAN  
Edward H. Bertram, MD  
David Q. Beversdorf, MD  
Neill R. Graff-Radford, MD, FAAN  
Joseph Jankovic, MD, FAAN  
Samia J. Khoury, MD, FAAN  
Richard D. King, MD, PhD  
John T. Kissel, MD, FAAN  
Walter J. Koroshetz, MD, FAAN  
Catherine Lomen-Hoerth, MD, PhD  
Mark F. Mehler, MD, FAAN  
Jose G. Merino, MD, M.Phil  
Heinz Reichmann, MD, FAAN  
Walter A. Rocca, MD, MPH  
Nina F. Schor, MD, PhD  
Jeffery M. Vance, MD, PhD  
Aleksandar Videnovic, MD

## Scientific Program Subcommittee

Laura J. Balcer, MD, MSCE, FAAN  
Robert H. Baloh, MD, PhD  
William P. Cheshire, Jr., MD, FAAN  
Tanuja Chitnis, MD  
F. Michael Cutrer, MD, FAAN  
Bradford Dickerson, MD  
Errol L. Gordon, MD

Kurt A. Jaeckle, MD, FAAN  
Vern C. Juel, MD, FAAN  
Eric Klawiter, MD  
Peter J. Koehler, MD, PhD, FAAN  
Sookyong Koh, MD, PhD  
Steven L. Lewis, MD, FAAN  
Nicholas J. Maragakis, MD  
Farrah J. Mateen, MD  
James F. Meschia, MD, FAAN  
Avindra Nath, MBBS, FAAN  
Raul G. Nogueira, MD  
Marc R. Nuwer, MD, PhD, FAAN  
Svetlana Pundik, MD  
Mark S. Quigg, MD  
John Matthew Ringman, MD  
Robert N. Schwendimann, MD, FAAN  
Joseph I. Sirven, MD, FAAN  
Theresa A. Zesiewicz, MD, FAAN

## Practice Committee

Jonathan P. Hosey, MD, FAAN, Chair  
Heidi B. Schwarz, MD, FAAN, Vice-Chair  
Wayne E. Anderson, MD  
Christopher Bever, Jr., MD, MBA, FAAN  
Neil A. Busis, MD, FAAN  
Bruce H. Cohen, MD, FAAN  
Ellis R. Diamond, MD  
Richard M. Dubinsky, MD, FAAN, MPH  
John D. England, MD, FAAN  
David A. Evans  
Miriam L. Freimer, MD  
Larry B. Goldstein, MD, FAAN, FAHA  
Donald J. Iverson, MD, FAAN  
Michael J. Kaminski, MD, FAAN  
David J. Likosky, MD, SFHM  
Pushpa Narayanaswami, MBBS, DM, FAAN  
Don B. Smith, MD, FAAN  
Matthew Smith, MD  
James C. Stevens, MD, FAAN  
Jack W. Tsao, MD, DPhil, FAAN

## Medical Economics and Management Committee

Neil A. Busis, MD, FAAN, Chair



# 64th Annual Meeting Committee Members

Gregory J. Esper, MD, Vice Chair  
Orly Avitzur, MD, MBA, FAAN  
Allison Brashear, MD, FAAN  
Bruce H. Cohen, MD, FAAN  
Farrah N. Daly, MD, MBA  
Peter D. Donofrio, MD, FAAN  
William S. Henderson, FACMPE  
Jonathan P. Hosey, MD, FAAN  
Joel M. Kaufman, MD, FAAN  
Constantine Moschonas, MD  
Marc Raphaelson, MD  
Marianna V. Spanaki, MD, PhD

## Abstract Reviewers

Steve Alexander, MD  
Muhammad Al-Lozi, MD  
Liana Apostolova, MD  
Genevieve Aubert, MD  
Rohit Bakshi, MD, FAAN  
Brenda Banwell, MD  
Amit Bar-Or, MD, FRCPC  
Kevin Barrett, MD  
Tracy Batchelor, MD, MPH  
Lisa Bateman, MD  
Jeffrey Bennett, MD, PhD, FAAN  
James Bernat, MD, FAAN  
Alma Bicknese, MD  
Bibiana Bielekova, MD  
Valerie Biousse, MD  
Sandra Black, MD, FAAN  
Christopher Boes, MD  
Dennis Bourdette, MD, FAAN  
Kevin Boylan, MD  
K.C. Brennan, MD  
Susan Bressman, MD, FAAN  
Helen Bronte-Stewart, MD, MSE, FAAN  
Robert Brown, Jr., MD, FAAN  
Jeffrey Buchhalter, MD, FAAN  
S. Thomas Carmichael, MD, PhD  
Adam Carpenter, MD  
Jose Cavazos, MD, PhD, FAAN  
Marc Chamberlain, MD, FAAN  
Seemant Chaturvedi, MD, FAAN  
Thomas Chelimsky, MD, FAAN  
Michael Chopp, PhD  
Helena Chui, MD

Emma Cifaloni, MD, FAAN  
Jan Claassen, MD, PhD  
David Clifford, MD, FAAN  
Jeffrey Cohen, MD  
Greg Cole, PhD  
Cynthia Comella, MD, FAAN  
Mark Cookson  
Jody Corey-Bloom, MD, PhD  
Steven Cramer, MD  
Bruce Cree, MD, PhD, MCR  
Brett Cucchiara, MD  
Valerie Cwik, MD  
Kirk Daffner, MD, FAAN  
Janis Daly, MS PhD  
William David, MD, PhD  
Thomas Davis, MD, FAAN  
Philip De Jager, MD, PhD  
Gregory Del Zoppo, MD  
Bart Demaerschalk, MD, MSc, FRCPC  
Marc Dichter, MD, PhD  
Peter Donofrio, MD, FAAN  
Paul Durham, PhD  
P. James B. Dyck, MD, FAAN  
Eric Eggenberger, DO, FAAN  
Mitchell Elkind, MD, MS, FAAN  
Ronald Emerson, MD, FAAN  
Joey English, MD, PhD  
Andrew Feigin, MD  
Elizabeth Finger, MD  
Adam Fleisher, MD  
Nancy Foldvary-Schaefer, DO  
Robert Fox, MD, FAAN  
Deborah Friedman, MD, FAAN  
Karen Furie, MD  
William Gaillard, MD  
Douglas Galasko, MD  
Gloria Galloway, MD, FAAN  
Jefferey Gertsch, MD  
Michael Geschwind, MD, PhD  
Bernardino Ghetti, MD  
Christopher Gibbons, MD  
Christopher Glisson, DO  
Christopher Goetz, MD, FAAN  
Myla Goldman, MD  
Rachel Goldmann Gross, MD

Nicole Gonzales, MD  
Andres Gonzalez, MD  
David Good, MD, FAAN  
Benjamin Greenberg, MD  
John Greenlee, MD, FAAN  
Michael Greicius, MD, MPH  
James Grotta, MD, FAAN  
Rishi Gupta, MD  
Charlene Hafer-Macko, MD  
E. Clarke Haley, Jr., MD, FAAN  
Deborah Hall, MD, PhD  
Meghan Harris, MD  
Robert Hauser, MD, MBA, FAAN  
Terry Heiman-Patterson, MD  
Victor Henderson, MD, FAAN  
Susan Herman, MD  
Michio Hirano, MD, FAAN  
Lawrence Hirsch, MD, FAAN  
Eric Hoffman, PhD  
Ahmet Hoke, MD, PhD  
James Howard, Jr., MD, FAAN  
Costantino Iadecola, MD  
Timothy Ingall, MBBS, PhD  
Matilde Inglese, MD, PhD  
Alan Jackson, MD, FAAN  
Lara Jehi, MD  
Barbara Jobst, MD, FAAN  
S. Claiborne Johnston, MD, PhD  
Wendy Johnston, MD, FRCP(C)  
Tudor Jovin, MD  
Larry Junck, MD  
Scott Kasner, MD  
Claudia Kawas, MD  
Kent Kelley, MD  
Omar Khan, MD, PhD  
Richard King, MD, PhD  
Christine Klein, MD  
Ronald Klein, PhD  
Matthew Koenig, MD  
Eric Kossoff, MD  
John Krakauer, MD  
Lindsey Lee Lair, MD  
Annette Langer-Gould, MD  
Douglas Larsen, MD  
James Leverenz, MD, FAAN

# 64<sup>th</sup> Annual Meeting Committee Members

Michael Levy, MD  
Richard Lewis, MD, FAAN  
Peter LeWitt, MD  
Jun Li, MD, PhD  
John Lindsey, MD  
Italo Linfante, MD  
Irene Litvan, MD, FAAN  
Catherine Lomen-Hoerth, MD, PhD  
Zachary London, MD  
Francisco Luque, MD, PhD, FAAN  
Patrick Lyden, MD, FAAN  
Caterina Mainero, MD, PhD  
Raman Malhotra, MD  
Ruth-Ann Marrie, MD  
Gad Marshall, MD  
Ninan Mathew, MD, FAAN  
Paul Mathew, MD  
Katherine Mathews, MD  
Margaret McBride, MD  
David McCarty, MD  
Matthew Meriggioli, MD, FAAN  
Timothy Miller, MD, PhD  
Margherita Milone, MD  
Alireza Minagar, MD, FAAN  
Nancy Minshew, MD, FAAN  
Janis Miyasaki, MD, FAAN  
John Morgan, MD, PhD  
Elena Moro, MD  
Ellen Mowry, MD  
Louis Nabors, III, MD  
Andrew Naidech, MD  
Robert Naismith, MD  
Lawrence Newman, MD, FAAN  
Herbert Newton, MD, FAAN  
Thanh Ngoc Nguyen, MD  
Katherine Noe, MD, PhD  
Kevin O'Connor, PhD  
Bruce Ovbiagele, MD, MSc, FAAN  
Alison Pack, MD  
Rajesh Pahwa, MD, FAAN  
Soojin Park, MD  
Steven Pavlakakis, MD, FAAN  
Victoria Pelak, MD  
Daniel Pelletier, MD  
Page Pennell, MD  
Ronald Pfeiffer, MD, FAAN  
Laura Piccio, MD, PhD  
Istvan Pirkó, MD, FAAN  
Michael Polydefkis, MD  
Sashank Prasad, MD  
Gil Rabinovici, MD  
Brad Racette, MD, FAAN  
Jeffrey Raizer, MD  
Anthony Reder, MD  
Mary Reilly, MD, FRCP, FRCPI  
Fred Rincon, MD  
John Rinker, II, MD, BA  
Carrie Robertson, MD  
Moses Rodriguez, MD, FAAN  
Ramon Rodriguez, MD  
Jonathan Rosand, MD  
John Rose, MD, FAAN  
Howard Rosen, MD  
Myrna Rosenfeld, MD, PhD, FAAN  
Mark Ross, MD, FAAN  
Natalia Rost, MD  
Robert Ruff, MD, PhD, FAAN  
Marwan Sabbagh, MD, FAAN  
Joseph Safdieh, MD  
Jeffrey Saver, MD, FAAN  
Philip Scheltens, MD, PhD  
Ronald Schondorf, MD  
Lori Ann Schuh, MD, FAAN  
Todd Schwedt, MD  
Duygu Selcen, MD, FAAN  
Stephen Selkirk, MD  
Kathleen Shannon, MD  
Holly Shill, MD  
Nancy Sicotte, MD, FAAN  
Timo Siepmann, MD  
Scott Silliman, MD  
A. Gordon Smith, MD, FAAN  
Israel Steiner, MD  
John Stern, MD, FAAN  
Olaf Stuve, MD, PhD, FAAN  
Charlotte Sumner, MD  
David Teplow, PhD  
Ann Tilton, MD, FAAN  
Michel Torbey, MD, MPH  
Cory Toth, MD  
Bryan Traynor, MD  
William Tyor, MD, FAAN  
Ryan Uitti, MD, FAAN  
Alla Vein, MD, PhD  
Arun Venkatesan, MD, PhD  
Steven Vernino, MD, PhD, FAAN  
Nathaniel Watson, MD  
Emmanuelle Waubant, MD, FAAN  
William Weiner, MD, FAAN  
Bianca Weinstock-Guttman, MD  
Patrick Wen, MD, FAAN  
Samuel Wiebe, MD  
David Wolk, MD  
Michael Wong, MD, PhD  
Daniel Woo, MD  
Bradford Worrall, MD, MSc, FAAN  
Gregory Worrell, MD  
Clinton Wright, MD  
Gregory Wu, MD  
Courtney Wusthoff, MD  
Dileep Yavagal, MD  
Sarah Nath Zallek, MD  
Scott Zamvil, MD, PhD, FAAN  
Phyllis Zee, MD, PhD  
Wendy Ziai, MD  
Robert Zivadinov, MD, PhD, FAAN  
Douglas Zochodne, MD  
Stephan Zuchner, MD

LEARNING ACROSS YOUR LIFETIME



***Start***

**Learning Across  
Your Lifetime *Here***

**Coming to *Academy Central***

***64<sup>th</sup> Annual Meeting—New Orleans***

April 21–28, 2012

- ▶ Demonstrations, presentations, resources, and more!
- ▶ FREE flash drives to Academy Central visitors, while supplies last!

Learn more at [www.aan.com](http://www.aan.com)





# 30 FREE THINGS TO DO

EVERY REASON TO CHOOSE NEW ORLEANS



*Thomas Jefferson paid \$15 million for the entire Louisiana Territory, or about four cents an acre. That means New Orleans went for about seven bucks. More than 200 years later, New Orleans is still a great deal.*

## 1. Get jazzed.

Stroll along Bourbon or Frenchmen, where jazz pours out onto the street or duck into a few clubs for the full experience.

## 2. Dive deeper into our musical heritage.

After you've heard your fair share of jazz, learn about its roots at the New Orleans Jazz National Historic Park (916 N. Peters Street).

## 3. Browse art throughout the city.

It seems like you can find art in every corner of New Orleans — the galleries on Julia and Royal Streets, the Mid-City and Bywater art markets, Jackson Square vendors and so much more.

## 4. Experience Our Parks.

Walk among the centuries-old oaks of City Park, picnic in picturesque Audubon Park or enjoy views of the Mississippi River at Woldenberg Park.

## 5. Take in a free festival.

Through free summer festivals such as Vieux-To-Do and Satchmo Summerfest, explore the history of New Orleans and understand the culture of this unique city.

## 6. Immerse yourself in New Orleans history.

Stop by The Historic New Orleans Collection at 533 Royal Street for a crash course on the city's history that spans almost 300 years.

## 7. Enjoy the neighborhood.

Spend an hour people-watching at a coffee shop in the Faubourg Marigny, voted one of America's 10 Great Neighborhoods.

## 8. Bike along the levee.

Rent a bike and go for a ride along the levee while taking in the sights and sounds of the mighty Mississippi River.

## 9. Oysters at Le Bon Temps Roule.

Head Uptown to this Magazine Street club on Fridays for free oysters as you listen to the funk sounds of Joe Crown.



## 10. Shop for mansions on St. Charles Avenue.

Come on! You don't have to be in the market to appreciate these jewels on the Avenue.

## 11. View the architecture of the French Quarter.

I spy wrought-iron balconies, a cornstalk fence, a hidden courtyard.

## 12. Get in touch with nature at Jean Lafitte National Park.

Just 30 minutes from downtown New Orleans and you can immerse yourself in Louisiana's rich ecological treasures — swamps, forests and marshland.

## 13. Catch a free summer show at Tipitina's.

This uptown venue pays homage to the jazz legend Professor Longhair with free shows on Fridays during the summer months.

## 14. Go see Fulton Street.

Stroll through the Fulton Street promenade, home to outdoor cafes, one-of-a-kind shopping, Harrah's Hotel and open-air concerts and festivals.

## 15. Celebrate the ambiance of The Roosevelt.

The \$145 million historic restoration added 504 rooms to New Orleans' hotel inventory, along with 60,000 square feet of event and meeting space.

## 16. Hang your business card at the Old Absinthe House.

Leave your mark on New Orleans by adding your business card to the wall at one of Bourbon Street's oldest bars.

## 17. Spend Saturday morning at the Farmers Market.

Learn a bit about the famous New Orleans cuisine with free cooking demonstrations at the Crescent City Farmers Market.

**18. Check out the Louisiana Superdome.**

The Louisiana Superdome, with its multi-million dollar renovation, is a premier venue for major conventions and sporting events, including Super Bowl XLVII in 2013.



**19. Haunt our “Cities of the Dead.”**

Visit our famous above-ground tombs at Lafayette Cemetery No. 1 in the Garden District or St. Louis Cemetery No. #1 on Basin Street, believed to be final resting place of Voodoo Queen Marie Laveau. Knock three times on her crypt and make a wish.

**20. Take Yourself on a Literary Tour.**

See where Tennessee Williams (722 Toulouse), William Faulkner (624 Pirate’s Alley), Truman Capote (711 Royal), Thornton Wilder (623 Bourbon), Walker Percy (1820 Milan) and Anne Rice (1239 First) lived.

**21. Jam at Wednesday at the Square.**

During the spring and summer months, the Young Leadership Council hosts free concerts in Lafayette Square featuring some of the hottest local acts.

**22. Ride the River.**

The free Canal Street ferry offers some of the best views of the New Orleans skyline and drops you in historic Algiers.

**23. Be Moved by Our Spectacular Churches.**

The large Catholic population of New Orleans gave rise to breathtaking churches such as St. Louis Cathedral, St. Augustine and Our Lady of Guadalupe.



**24. Discover the Besthoff Sculpture Garden.**

Located amid the beauty of City Park, the Besthoff Sculpture Garden features one of the most impressive collections of contemporary sculpture in America.

**25. Be a “Voluntourist.”**

Though New Orleans is thriving, there are parts of the city that could still use some help following Hurricane Katrina. Just a few hours of volunteering can leave a lasting impact on New Orleans.

**26. Walk and Talk.**

Network with thousands of your fellow colleagues in the world’s most walkable city.

**27. Room with a View.**

Soak up the views of the French Quarter, Warehouse District and Central Business District from your newly renovated hotel room.

**28. Savor Your Senses.**

Savor the smells of more than 1,000 restaurants as you walk the streets of the French Quarter and Riverfront.

**29. World Class Venue.**

Browse the exhibit hall in a Convention Center that has undergone million dollars in renovations.

**30. Unique Destination.**

Listen to the rattle of the historic streetcar and know that you’re truly someplace different.

Where else would you rather be?

**10 UNDER \$10**

**1. BEIGNETS AT CAFÉ DU MONDE**

Just one suggestion: don’t wear black.

**2. THE CABILDO ON JACKSON SQUARE**

Go see Napoleon’s death mask and lots of other fascinating stuff.

**3. DUELING PIANOS AT PAT O’BRIEN’S**

For a tip, they’ll play just about anything.

**4. STREETCAR RIDE**

For \$1.25 the streetcar will take you back in time.

**5. SLOTS AT HARRAH’S**

Ten dollars may not take you too far, but you never know...

**6. STREET PERFORMERS**

Come on. Give a mime a buck.

**7. ROMAN CANDY WAGON**

One gooey stick will take you back.

**8. FRENCH MARKET**

Shop for affordable treasures.

**9. SNOWBALLS**

Take them for an authentic New Orleans snowball. Nectar cream is a local favorite.

**10. LUCKY DOG**

You haven’t been to New Orleans till you’ve had one.

# Important Annual Meeting Information and Contacts

**Hotel Reservation Deadline: March 21, 2012**

**Meeting Registration Deadline: March 28, 2012**

**Registration, Hotel, and Travel Reservations: [www.aan.com/view/am12register](http://www.aan.com/view/am12register)**

## **Registration and Hotel**

### **Phone:**

Credit card reservations only  
US/Canada: (800) 676-4226  
International: (415) 979-2283

### **Email:**

Registration: [aanreg@cmrus.com](mailto:aanreg@cmrus.com)  
Housing: [aanhousing@cmrus.com](mailto:aanhousing@cmrus.com)

### **Hours:**

Monday–Friday  
6:00 a.m.–6:00 p.m. Pacific Standard Time

## **Travel**

### **Airline Reservations:**

#### **Carlson Wagonlit Travel**

Phone: (866) 978-1071      Fax: (866) 914-2817

### **Email:**

[mspaangroups.us@contactcwt.com](mailto:mspaangroups.us@contactcwt.com)

### **Hours:**

Monday–Friday, 7:30 a.m.–5:00 p.m. CST  
Closed weekends and holidays

## **Executive Staff/**

### **Annual Meeting Oversight**

Catherine M. Rydell, CAE  
*Chief Executive Officer*  
*AAN, AANI, and AAN Foundation*

Christine E. Phelps  
*Deputy Executive Director*  
*AAN and AAN Foundation*

Kris Fridgen  
*Senior Director*  
*Center for Research, Education,*  
*and Development*

Kevin Heinz  
*Associate Director, Education and Science*

Tammi Sand  
*Senior Manager, Meetings and*  
*Conference Management*

## **Education Program**

Amy Nostdahl  
*Manager, Education Programs*

Heather Lundgren  
*Senior Specialist, Education Programs*  
[education@aan.com](mailto:education@aan.com)

## **Science Program**

Erin Jackson  
*Manager, Scientific Programs*

Nate Kosher  
*Administrator, Scientific Programs*  
[science@aan.com](mailto:science@aan.com)

## **Registration**

Lori Strachota  
*Program Manager, Conference Management*  
[registration@aan.com](mailto:registration@aan.com)

## **Housing**

Julie Ratzloff  
*Senior Manager, Conference Management*

## **Affiliate Events/Meeting Rooms**

Franziska Schwarz, CEM  
*Program Manager, Exhibits and*  
*Affiliate Meetings*

## **Exhibits**

Franziska Schwarz, CEM  
*Program Manager, Exhibits and*  
*Affiliate Meetings*

## **Corporate Relations**

Alberta Zais  
*Director, Corporate Relations*  
Bridget Farley  
*Manager, Corporate Relations*

## **Compliance Issues**

Susan Rodmyre  
*Director, Education*

## **Resident and Student Activities**

Lucy Persaud Samaroo  
*Program Manager, Education*  
Cheryl Alementi  
*Senior Administrator, Education*

## **Practice and Advocacy Related Issues**

Rod Larson  
*Chief Health Policy Officer*  
[advocacy@aan.com](mailto:advocacy@aan.com)

For direct email and phone contacts, please contact  
Member Services at: [memberservices@aan.com](mailto:memberservices@aan.com), (800) 879-1960, or (651) 695-2717 (international)



# Take Your Commitment to Your Profession to the Next Level

## 2012 AAN Physician Leadership Program

Whether you want to be a mentor or an advocate, to guide or inspire others, you need to cultivate the skills to be an effective leader.

**Directors:** Allison Brashear, MD, FAAN, Winston Salem, NC  
Terrence L. Cascino, MD, FAAN, Rochester, MN

### Sunday, April 22

9:00 a.m.–5:00 p.m.

**NEW!**

#### ***Leading Others***

Create engaged followers so you can effectively lead others and create results!

### Monday, April 23

9:00 a.m.–5:00 p.m.

#### **BACK BY POPULAR DEMAND!**

#### ***Leading in a Complex World—The Power of Authenticity***

Get informed and motivated through a combination of lectures by top leaders in neurology and in-depth, concrete examples and real-world applications.

#### **Featuring:**

***Richard Leider***—*Founder, Chairman - The Inventure Group*

Richard has a worldwide practice working with leaders from organizations such as AARP, Caterpillar, Ericsson, Habitat for Humanity, MetLife, Pfizer and PriceWaterhouseCoopers.

Richard is consistently rated as one of the top executive educators and coaches in the world. He is ranked by Forbes as one of the “Top 5” most respected executive coaches, by Linkage as one of the “Top 50” executive coaches, and by the Conference Board as a “legend in coaching.”

***Barbara Hoese***—*Principal, President - The Inventure Group*

Barbara is a gifted speaker, facilitator, and coach. Her interactive and passionate speaking style encourages audiences to take their leadership to the next level of effectiveness. She has developed and led workshops and retreats in leadership, planning and teaming, work/life balance and interpersonal communications. In her coaching, she works with executives and leaders to discover and use their best talents to find greater fulfillment and success in their work and life.

The program is open to anyone with an interest.

#### **SEPARATE REGISTRATION REQUIRED**

Please visit [www.aan.com/go/am12/leadership](http://www.aan.com/go/am12/leadership)  
for more details





1080 Montreal Avenue  
St. Paul, MN 55116

Non-Profit Org.  
US Postage  
**PAID**  
Permit No. 3840  
Twin Cities, MN

## Upcoming Annual Meeting Dates and Locations

### **AAN 65<sup>th</sup> Annual Meeting**

San Diego  
March 16–March 23, 2013

### **AAN 66<sup>th</sup> Annual Meeting**

Philadelphia  
April 26–May 3, 2014

### **AAN 67<sup>th</sup> Annual Meeting**

Washington, DC  
April 18–April 25, 2015

AAN Website: [www.aan.com](http://www.aan.com) • Annual Meeting Website: [www.aan.com/go/am12](http://www.aan.com/go/am12) • AAN Member Services: (800) 879-1960

